

YOUR SOLUTIONS PROVIDER

IUBSI INDUSTRIES

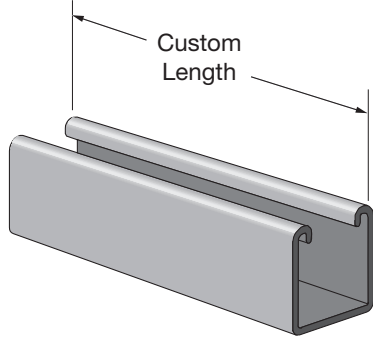


IUBS INDUSTRIES PRODUCTS CATALOGUE NO.3

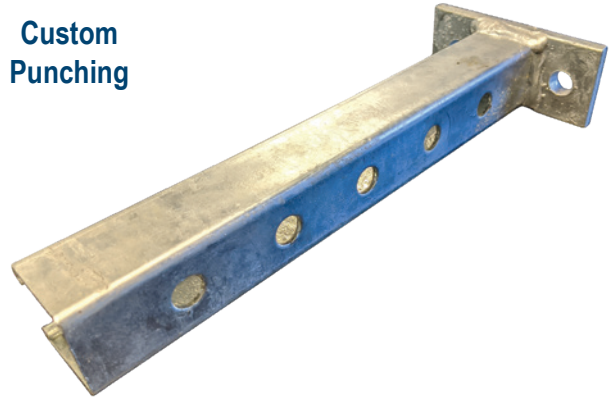
Prefabrication and Customization

We Can Provide Custom Cutting, Custom Punching, and Custom Assemblies

Custom Cut Channel



Custom Punching

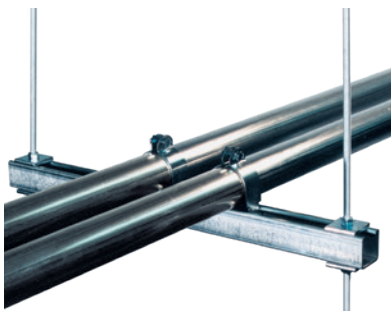


UBS can provide our channel with custom Punching to your specifications. Short slots, long slots, various sized holes.

UBS can provide our channel in custom lengths to your specifications. Ready-to-install custom lengths can save time and cost on the jobsite, reduce scrap, and reduce errors in the field.

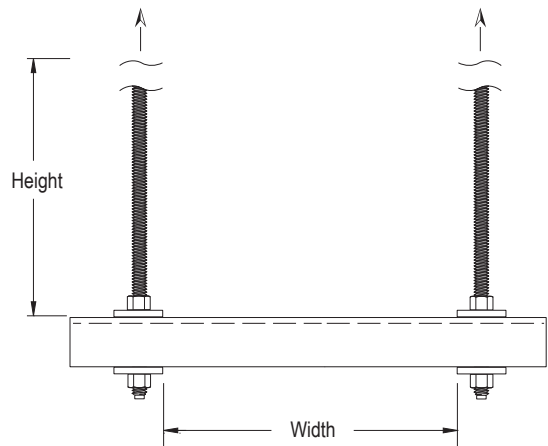
Custom lengths are available at any length from 2" to 20' with a $\pm 1/8$ " tolerance. In some cases we can provide lengths greater than 20'.

Custom Trapeze Kits



UBS can provide custom specified trapezes to your request. They can be cut to your specification and shipped kitted or fully assembled for quick installation on the jobsite.

Specify Trapeze width, threaded rod height and diameter and type of channel.



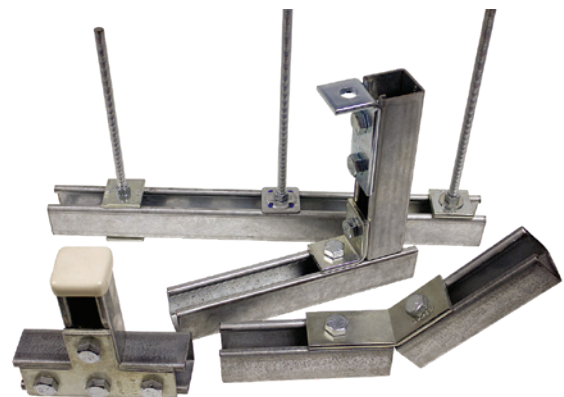
Custom Assemblies



Custom Frames



UBS can provide custom specified assemblies to your request. They can be cut to your specification and shipped kitted or fully assembled for quick installation on the jobsite.



- Introduction
- Channel
- Concrete Inserts
- General Fittings
- Spring Nuts & Hardware
- Clamps & Pipe Supports
- Seismic
- Galvanizing Compound
- Roofing Supports
- Erectastep
- Sign Posts
- Mechanical Tube
- Index

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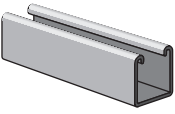
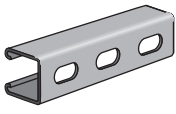
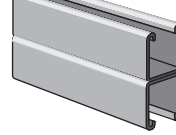
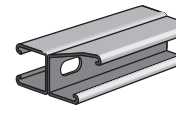
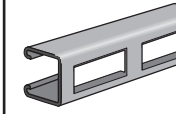
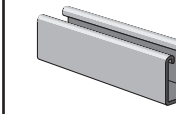
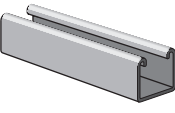
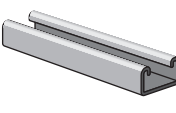
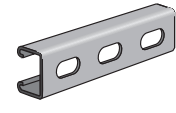
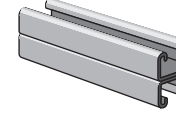
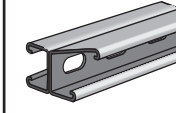
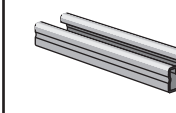
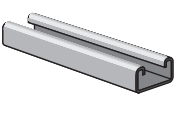
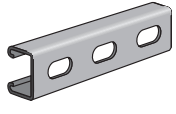
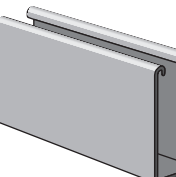
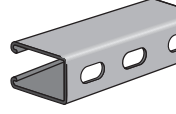
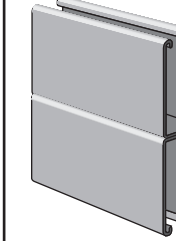
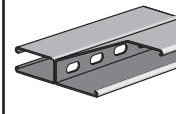
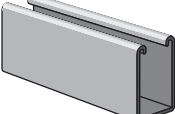
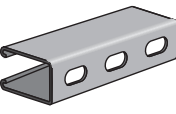
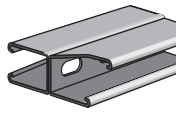
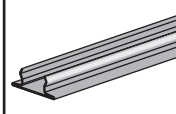
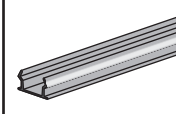
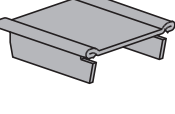
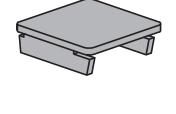
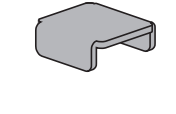
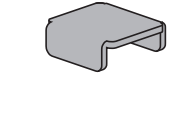
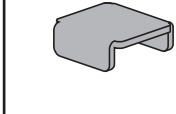
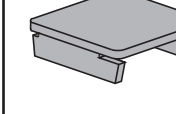
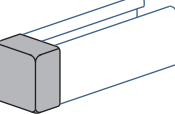
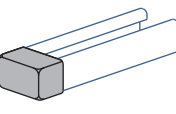
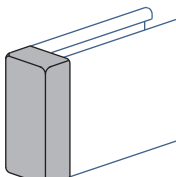
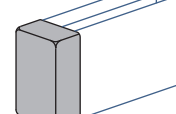
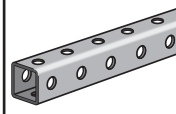
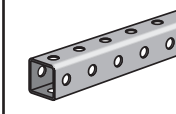
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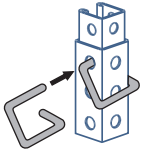
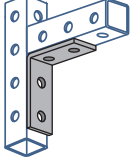
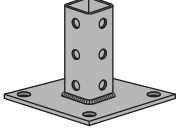
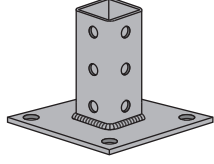
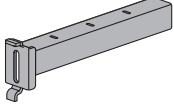
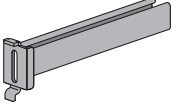
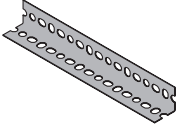
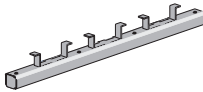
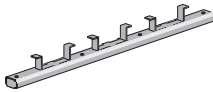
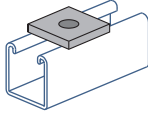
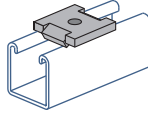
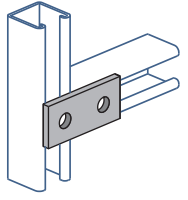
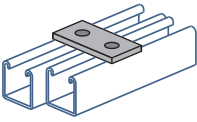
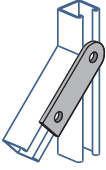
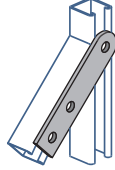
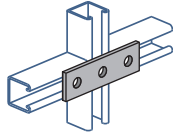
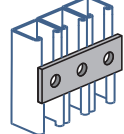
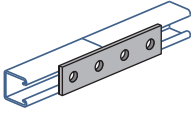
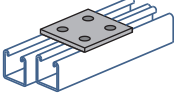
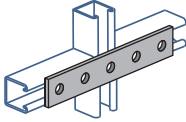
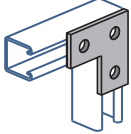
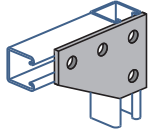
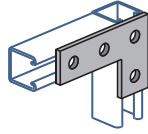
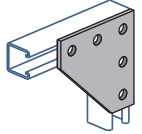
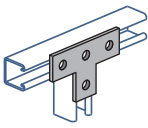
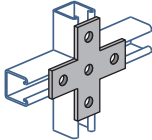
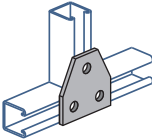
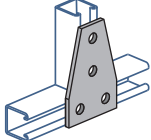
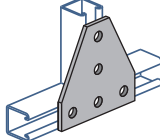
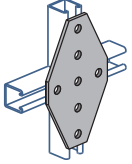
**ELECTRICAL
MECHANICAL
INDUSTRIAL**

**MEDICAL
ARCHITECTURAL
COMMERCIAL**

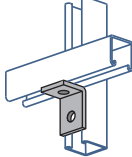
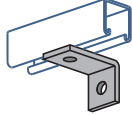
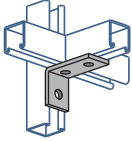
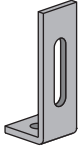
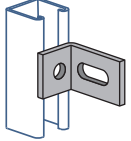
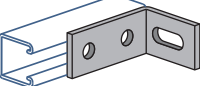
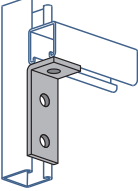
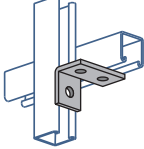
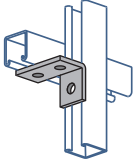
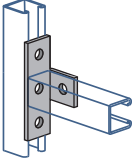
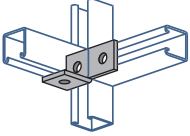
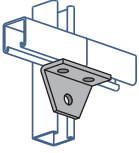
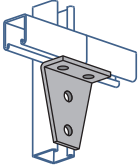
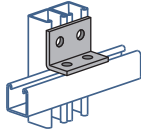
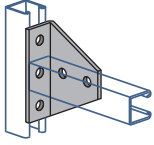
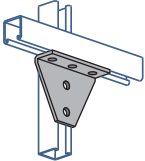
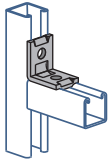
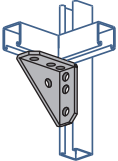
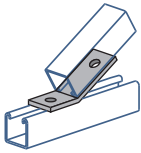
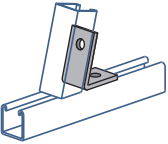
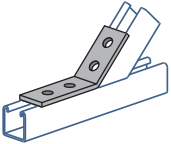
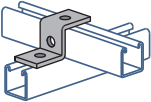
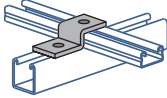

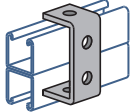
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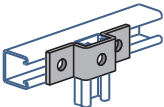
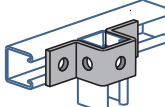
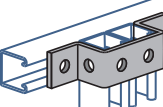
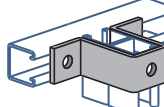
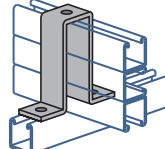
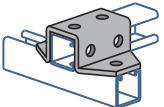
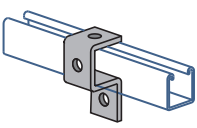
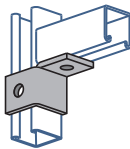
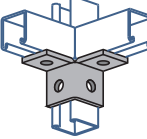
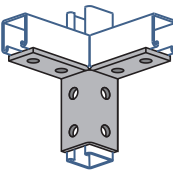
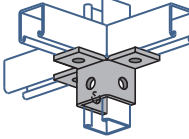
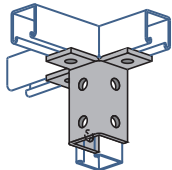
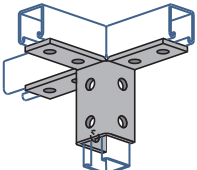
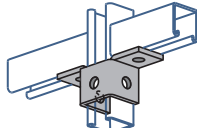
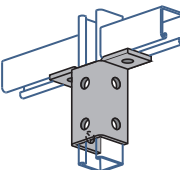
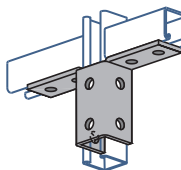
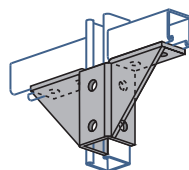
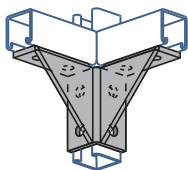
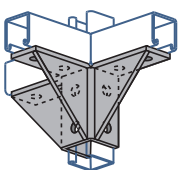
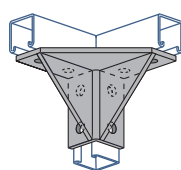
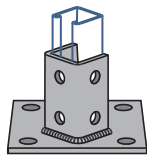
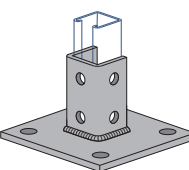
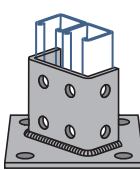
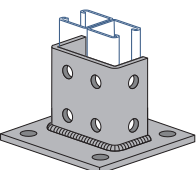
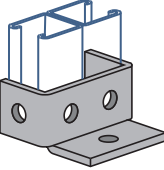
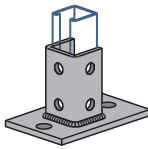
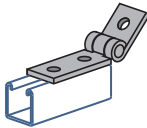
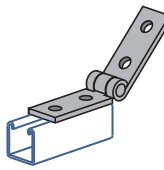
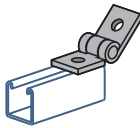
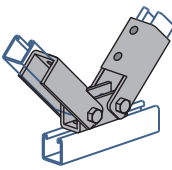
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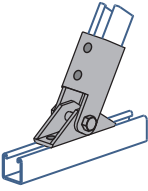
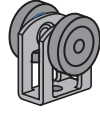
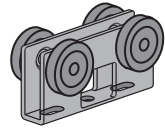
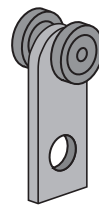
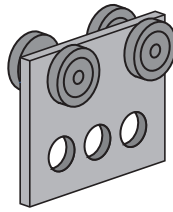
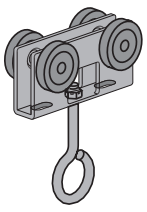
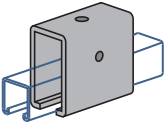
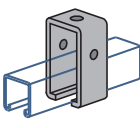
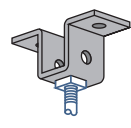
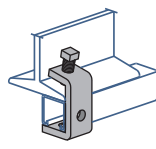
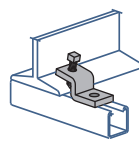
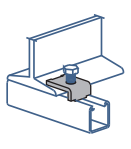
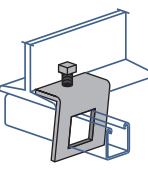
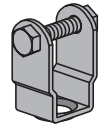
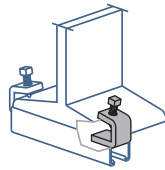
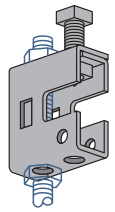
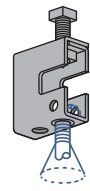
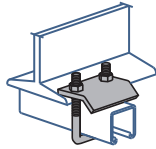
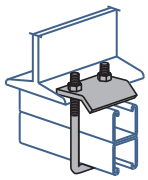
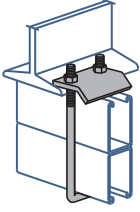
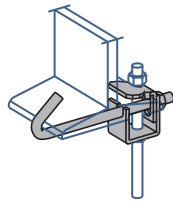
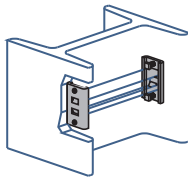
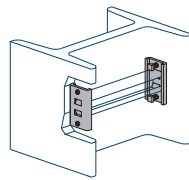
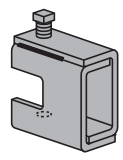

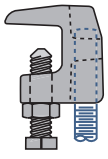
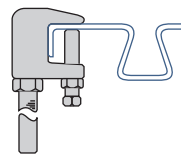
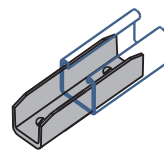
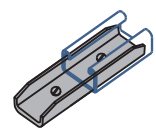
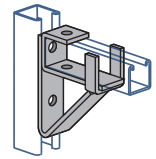
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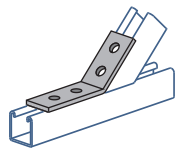
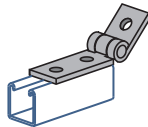
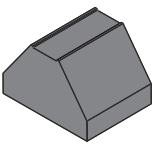


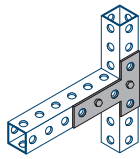
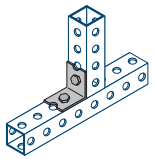

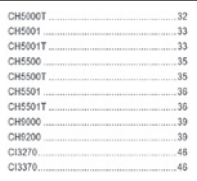
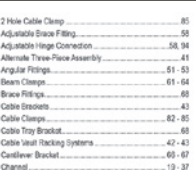
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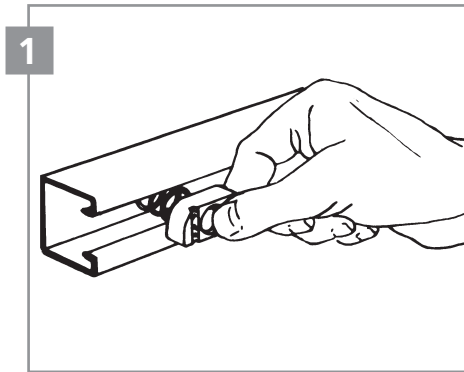
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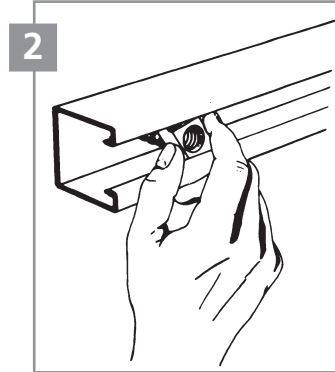
					
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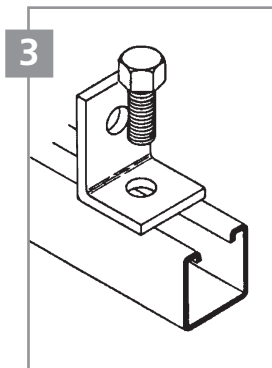


Insert the spring nut anywhere along the continuous slotted channel. The rounded nut ends permit easy insertion.

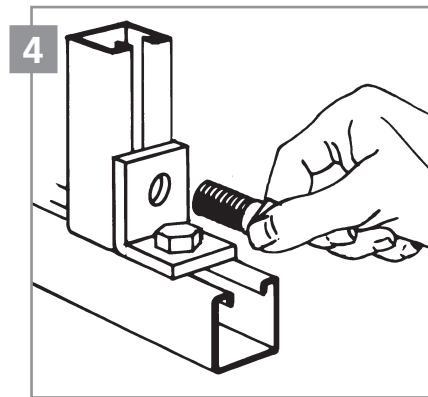


A 90° clockwise turn aligns the grooves in the nut with the inturned edges of the channel.

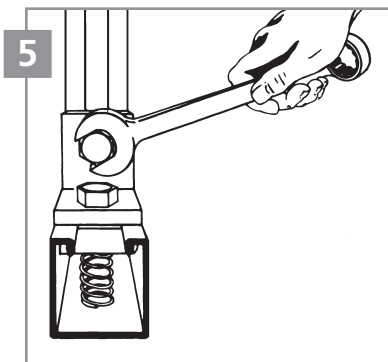
Fittings can be placed anywhere along the channel opening, permitting complete freedom of adjustment. The need for drilling holes is eliminated.



Insert the bolt through the fitting and into the spring nut. (See illustration 5 for end view showing the nut in place)

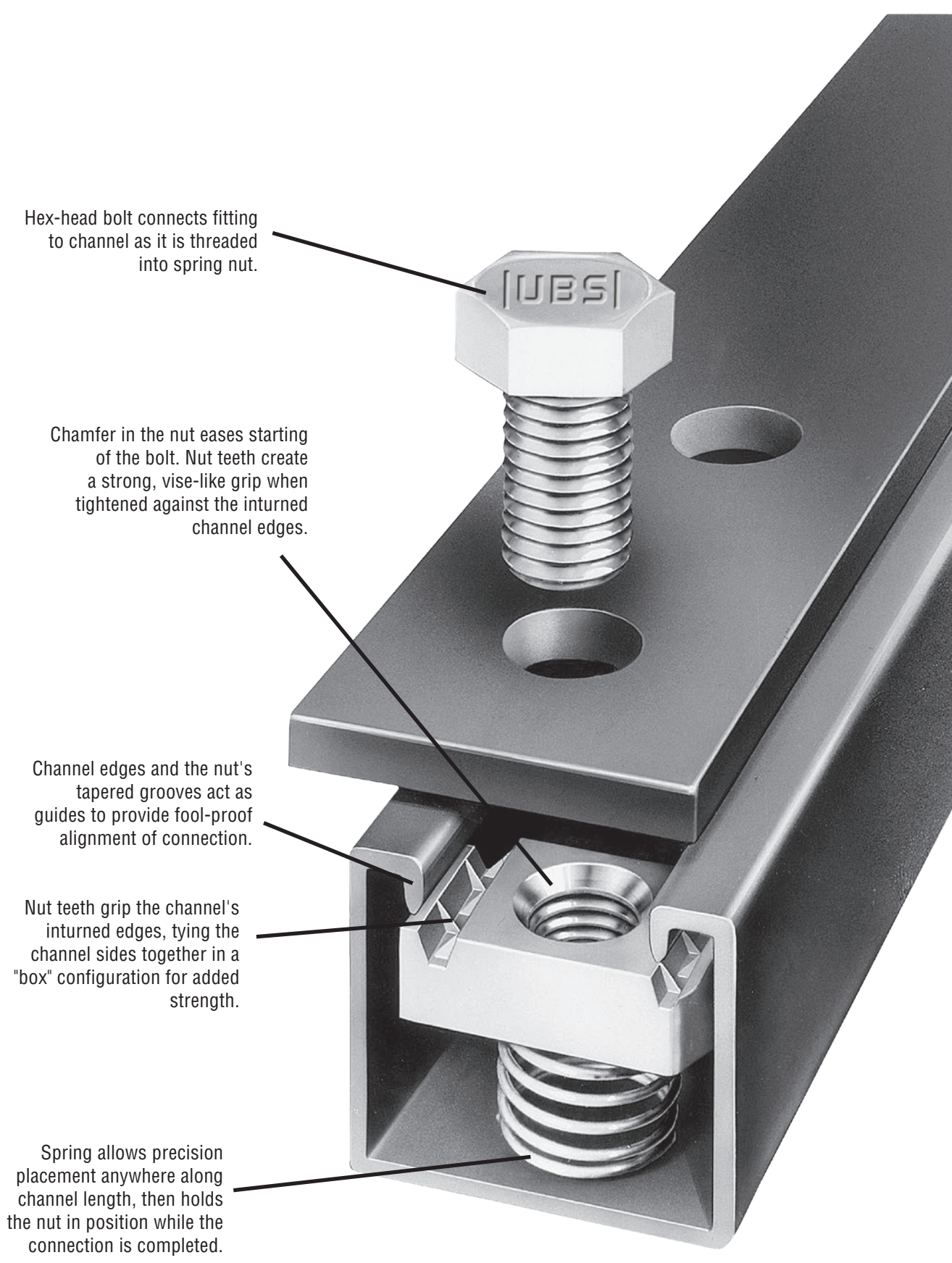


Additional channel sections can now be bolted to the fitting already in place by following procedure described in steps 1–3.



Tightening with a wrench locks the serrated teeth of the nut into the inturned edges of the channel, to complete a strong, vise-like connection.

100% Adjustable • 100% Reusable • No Welding • No Drilling • No Special Tools



Hex-head bolt connects fitting to channel as it is threaded into spring nut.

Chamfer in the nut eases starting of the bolt. Nut teeth create a strong, vise-like grip when tightened against the inturned channel edges.

Channel edges and the nut's tapered grooves act as guides to provide fool-proof alignment of connection.

Nut teeth grip the channel's inturned edges, tying the channel sides together in a "box" configuration for added strength.

Spring allows precision placement anywhere along channel length, then holds the nut in position while the connection is completed.

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STEEL - UNFINISHED, PLAIN, AS-ROLLED (PL)

Plain steel is unfinished and has the hot rolled and pickled surface finish that results from the original steel making process. The steel meets the specification requirements of ASTM A1011 SS Grade 33. The cold rolling process adds light oil to the surface that remains in place unless otherwise specified. This surface finish is not resistant to corrosion, and is suitable only for dry indoor environments or when the purchaser wishes to apply a special coating.

STEEL - PRE-GALVANIZED (PG)

Components are cold-rolled from pre-galvanized sheet steel manufactured to the specification requirements of ASTM A653 Grade 33 or ASTM A653 SS Grade 50. The pre-galvanized zinc coating to G-90 thickness, 0.75 MIL or 0.45 oz./sq. ft. of surface area.

STEEL - HOT-DIPPED GALVANIZED (HG)

Components are fabricated from plain steel meeting the specification requirements of ASTM A1011 and hot dipped galvanized after fabrication. This galvanizing method introduces a relatively thick layer of zinc which consists of zinc intermetallics and an outer layer of pure zinc. Hot dipped galvanizing provides the longest life in outdoor environments due to the larger volume of zinc present. Hot dip galvanizing is performed to the specification requirements of ASTM A123. The zinc coating is typically 2.6 MIL or 1.5 oz./sq. ft. of surface area.

STAINLESS STEEL - TYPE 304 (SS 304)

Type 304 stainless steel is an austenitic stainless steel which has excellent corrosion resistance in most wet environments. Austenitic stainless steels are non-magnetic. The material forms a passive chromium oxide surface layer that prevents further oxidation (corrosion) from occurring in service. The material is resistant to a wide range of chemicals and conforms to ASTM A240 (30 ksi yield strength).

STAINLESS STEEL - TYPE 316 (SS 316)

Type 316 stainless steel is similar to type 304, but is more resistant to corrosion in marine environments due to molybdenum present in the steel. The material is resistant to corrosion in high chloride environments and conforms to ASTM A240 (30 ksi yield strength).

ZINC ELECTROPLATED STEEL (EG)

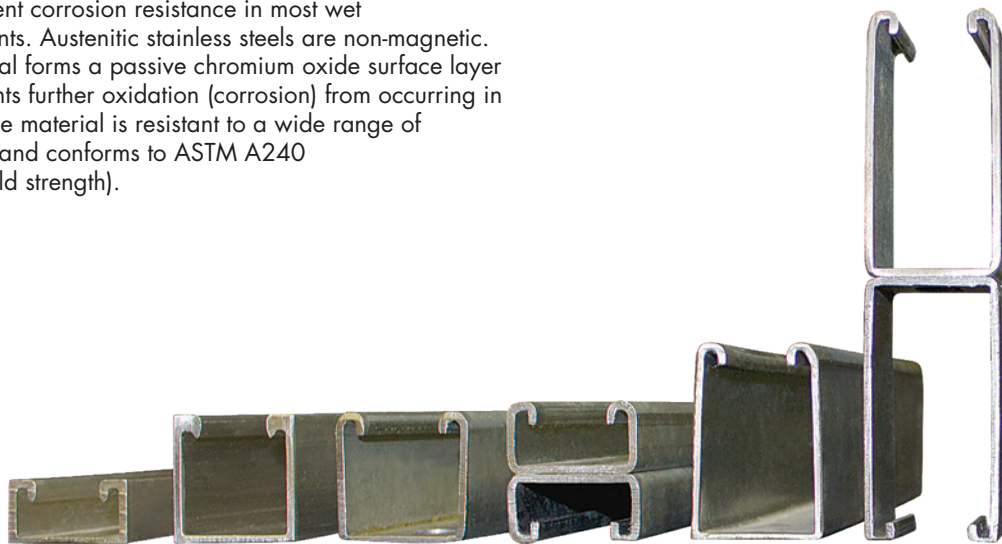
Zinc electroplating is used to coat plain steel. The electroplating process requires that the component be immersed in a solution containing zinc ions that are deposited on the surface of the part. Electroplated zinc is shiny and smooth, and is suitable for indoor environments with low relative humidity.

ALUMINUM (AL)

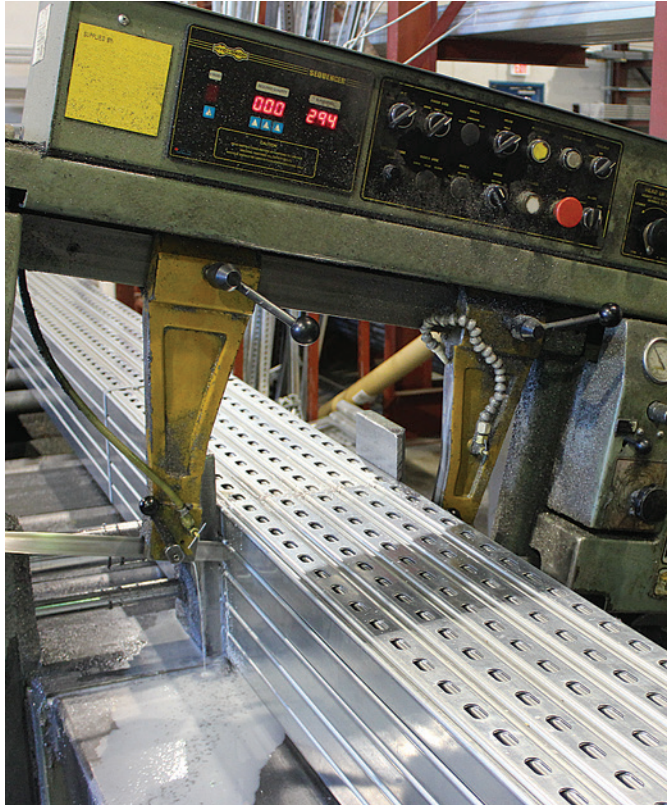
Aluminum alloy extrusions are available conforming to ASTM B221 (Type 6063 T5/T6). This is a heat treated alloy with a minimum yield strength of 25 ksi. Aluminium alloys form a passive oxide film on the surface which prevents further oxidation from occurring. Aluminum alloy extrusions are resistant to corrosion and are suitable for most indoor and outdoor environments with no additional surface finish.

FIBREGLASS (FG)

Polyester and vinyl-ester based composite materials are available for channels and fittings. These composite materials are made by a pultrusion process and have a relatively low modulus of elasticity compare with steel and aluminum. This class of material is electrically insulating and is suitable for use in areas where electrical shock hazards exist.



Loading data in this catalogue is for design guideline purposes only. Structural designs should be checked and approved by a professional structural engineer before selection and installation of any product.



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MATERIALS & FINISHES

UBS channels are accurately and carefully cold formed to size from low-carbon strip steel.

STEEL: PLAIN (PL)

12 Ga., 14 Ga. and 16 Ga.
ASTM A1011 SS GR 33.

STEEL: PRE-GALVANIZED (PG)

12 Ga. , 14 Ga. and 16 Ga.
ASTM A653 GR 33 or ASTM A653 SS GR 50

STEEL: HOT-DIPPED GALVANIZED (HG)

Conforming to ASTM A123.

STAINLESS STEEL (SS)

Conforming to ASTM A240 (Type 304).
Conforming to ASTM A240 (Type 316).

ALUMINUM (AL)

Conforming to ASTM B221 (Type 6063 T5/T6).
(Extruded)

FIBREGLASS (FG)

Polyester and vinyl ester channels are manufactured from the pultrusion process and are color coded gray and beige respectively.

Type 316 Stainless also available for most products. For other materials, contact your UBS representative.

LOAD DATA

All beam and column load data pertains to carbon steel and stainless steel channels. Load tables and charts are constructed to be in accordance with the SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 2007 EDITION published by the AMERICAN IRON AND STEEL INSTITUTE USING ASD METHOD. Loads are based on 33 ksi steel.

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in millimeters and rounded to one decimal place.

LENGTHS

Lengths are 10 feet (3.05m) and 20 feet (6.10m). Tolerances are $\pm 1/8"$ to $\pm 1/2"$ (3 to 13 mm).




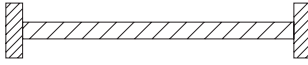

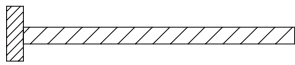
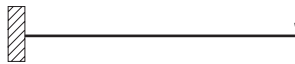
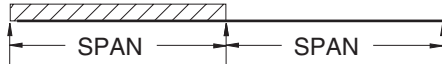
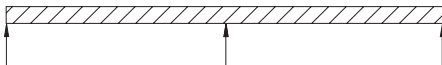


We also have the ability to cut channel to the specific lengths required for any project.

Type of Load	Safety Factor to Yield Strength	Safety Factor to Ultimate Strength
Beam Loads	1.67	2.0
Column Load	1.80	2.2

UBS INDUSTRIES RESERVES THE RIGHT TO MAKE SPECIFICATION CHANGES WITHOUT NOTICE

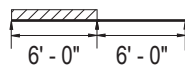
Conversion Factors For Beams With Various Static Loading Conditions

All Beam Load tables are for single-span (simple) beams supported at the ends in the manner indicated. These can be used in the majority of the cases. However, there are times when it is necessary to know what happens with other loading and support conditions. Some common arrangements are shown below. Simply multiply the values from the Beam Load tables by factors given below.

Load and Support Condition	Load Factor	Deflection Factor
1. Simple Beam, Uniform Load 	1.00	1.00
2. Simple Beam, Concentrated Load at Center 	.50	.80
3. Simple Beam, Two Equal Concentrated Loads at 1/4 pts 	1.00	1.10
4. Beam Fixed at Both Ends, Uniform Load 	1.50	.30
5. Beam Fixed at Both Ends, Concentrated Load at Center 	1.00	.40
6. Cantilever Beam, Uniform Load 	.25	2.40
7. Cantilever Beam, Concentrated Load at End 	.12	3.20
8. Continuous Beam, Two Equal Spans, Uniform Load on One Span 	1.30	.92
9. Continuous Beam, Two Equal Spans, Uniform Load on Both Ends 	1.00	.42
10. Continuous Beam, Two Equal Spans, Concentrated Load at Center of One Span 	.62	.71
11. Continuous Beam, Two Equal Spans, Concentrated Load at Center of Each Span 	.67	.48

EXAMPLE I:

Determine load and deflection of a CH1000 beam continuous over one support and loaded uniformly on one span.

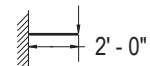


SOLUTION:

- From load table for CH1000 on page 22 load for a 6'-0" span is 680# and deflection is .35".
- Multiply by factors from Table above.
 Load = 680# x 1.30 = 884#
 Deflection = .35" x .92 = .32"

EXAMPLE II





Determine load and deflection of a CH5500 cantilever beam with a concentrated load on the end.



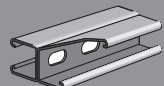


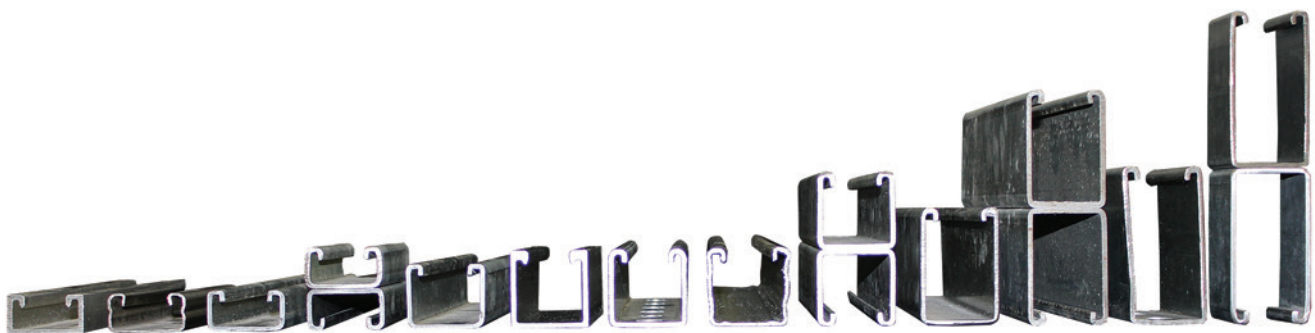
SOLUTION:

- From load table CH5500 on page 36 load for a 2'-0" span is 2180# and deflection is .09".
- Multiply by factors from Table above.
 Load = 2180# x .12 = 262#
 Deflection = .09" x 3.20 = .29"

Channel Selection Chart

Channel	Channel Dimensions		Material & Thickness			Hole Pattern Styles	
			Steel	Stainless Steel	Alum.		
	Width In (mm)	Height In (mm)	Gauge	Gauge	In (mm)	T	DS
CH1000	1 $\frac{5}{8}$ (41.3)	1 $\frac{5}{8}$ (41.3)	12 ga	12 ga	0.109 (2.8)	■	■
CH1100	1 $\frac{5}{8}$ (41.3)	1 $\frac{5}{8}$ (41.3)	14 ga	—	—	-	-
CH3000	1 $\frac{5}{8}$ (41.3)	1 $\frac{3}{4}$ (34.9)	12 ga	—	—	-	-
CH3300	1 $\frac{5}{8}$ (41.3)	$\frac{7}{8}$ (22.2)	12 ga	12 ga	—	■	-
CH4000	1 $\frac{5}{8}$ (41.3)	1 $\frac{3}{16}$ (20.6)	16 ga	16 ga	0.078 (2.0)	-	-
CH4100	1 $\frac{5}{8}$ (41.3)	1 $\frac{3}{16}$ (20.6)	14 ga	14 ga	—	■	-
CH5000	1 $\frac{5}{8}$ (41.3)	3 $\frac{1}{4}$ (82.6)	12 ga	—	—	■	-
CH5500	1 $\frac{5}{8}$ (41.3)	2 $\frac{7}{16}$ (61.9)	12 ga	—	—	■	-

Back-to-Back Channel	Channel Dimensions		Material & Thickness			Hole Pattern Styles
			Steel	Stainless Steel	Alum.	
	Width In (mm)	Height In (mm)	Gauge	Gauge	In (mm)	T
CH1001	1 $\frac{5}{8}$ (41.3)	3 $\frac{1}{4}$ (82.6)	12 ga	—	—	■
CH3301	1 $\frac{5}{8}$ (41.3)	1 $\frac{3}{4}$ (44.5)	12 ga	—	—	■
CH5001	1 $\frac{5}{8}$ (41.3)	6 $\frac{1}{2}$ (165.1)	12 ga	—	—	■
CH5501	1 $\frac{5}{8}$ (41.3)	4 $\frac{7}{8}$ (123.8)	12 ga	—	—	■

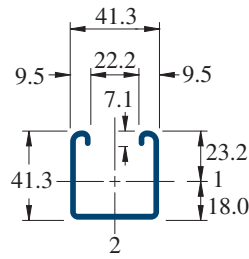
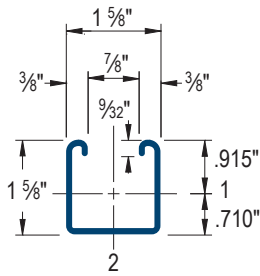


Lateral Bracing Load Reduction Charts

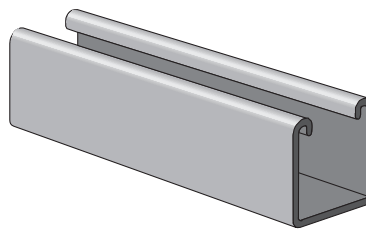
Span	Single Channel									Back to Back Channel			
	Ft. (m)	In. (cm)	CH1000	CH1100	CH3000	CH3300	CH4000	CH4100	CH5000	CH5500	CH1001	CH3301	CH5001
2 (0.61)	24 (61)	1.00	1.00	1.00	1.00	1.00	1.00	0.98	0.99	1.00	1.00	1.00	1.00
3 (0.91)	36 (91)	0.94	0.89	0.96	1.00	0.94	0.98	0.85	0.89	1.00	1.00	1.00	1.00
4 (1.22)	48 (122)	0.88	0.78	0.91	1.00	0.88	0.94	0.70	0.77	1.00	1.00	0.97	0.98
5 (1.52)	60 (152)	0.82	0.68	0.88	0.98	0.83	0.91	0.55	0.67	0.97	1.00	0.90	0.93
6 (1.83)	72 (183)	0.78	0.59	0.84	0.97	0.79	0.89	0.44	0.58	0.93	0.97	0.83	0.87
7 (2.13)	84 (213)	0.75	0.52	0.82	0.96	0.75	0.86	0.38	0.51	0.89	0.95	0.76	0.81
8 (2.44)	96 (244)	0.71	0.47	0.79	0.94	0.72	0.84	0.33	0.46	0.85	0.92	0.68	0.76
9 (2.74)	108 (274)	0.69	0.43	0.77	0.93	0.69	0.82	0.30	0.42	0.81	0.90	0.61	0.70
10 (3.05)	120 (305)	0.66	0.40	0.75	0.92	0.66	0.80	0.28	0.40	0.78	0.87	0.54	0.64
12 (3.66)	144 (366)	0.61	0.36	0.70	0.89	0.60	0.76	0.24	0.36	0.70	0.82	0.43	0.53
14 (4.27)	168 (427)	0.55	0.32	0.66	0.86	0.55	0.73	0.22	0.32	0.63	0.78	0.35	0.45
16 (4.88)	192 (488)	0.51	0.30	0.62	0.84	0.50	0.69	0.21	0.30	0.56	0.73	0.30	0.39
18 (5.49)	216 (549)	0.47	0.28	0.58	0.81	0.47	0.65	0.19	0.28	0.49	0.68	0.27	0.34
20 (6.10)	240 (610)	0.44	0.26	0.54	0.78	0.43	0.61	0.18	0.26	0.44	0.63	0.24	0.30

Channels & Combinations in Descending Order of Strength

Channel	Area In ² (cm ²)	Weight lbs/ft (kg/m)	I In ⁴ (cm ⁴)	s In ³ (cm ³)	Allow. Moment In-lbs (N*m)
CH5001	1.793 11.57	6.10 9.1	6.227 259.2	1.916 31.4	48,180 5,440
CH5501	1.452 9.37	4.94 7.3	2.805 116.8	1.151 18.9	28,940 3,270
CH5000	0.897 5.78	3.05 4.5	1.098 45.7	0.627 10.3	15,770 1,780
CH1001	1.111 7.16	3.78 5.6	0.928 38.6	0.571 9.4	14,360 1,620
CH3001	1.000 6.45	3.40 5.1	0.591 24.6	0.430 7.0	10,810 1,220
CH5500	0.726 4.68	2.47 3.7	0.522 21.7	0.390 6.4	9,820 1,110
CH9200	0.489 3.16	2.23 3.3	0.279 11.6	0.297 4.9	7,480 850
CH9000	0.387 2.50	1.88 2.8	0.166 6.9	0.205 3.4	5,150 580
CH1000	0.555 3.58	1.89 2.8	0.185 7.7	0.202 3.3	5,070 570
CH3301	0.790 5.10	2.69 4.0	0.176 7.3	0.201 3.3	5,060 570
CH1100	0.418 2.69	1.42 2.1	0.145 6.0	0.162 2.6	4,060 460
CH3000	0.500 3.23	1.70 2.5	0.120 5.0	0.153 2.5	3,850 430
CH3300	0.395 2.55	1.34 2.0	0.037 1.5	0.072 1.2	1,800 200
CH4100	0.290 1.87	0.98 1.5	0.026 1.1	0.054 0.9	1,360 150
CH4000	0.244 1.57	0.83 1.2	0.023 0.9	0.049 0.8	1,230 140

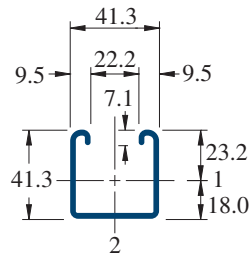
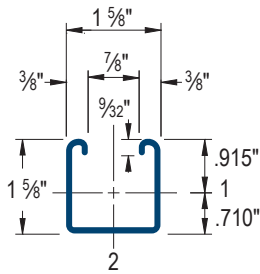


CH1000
 1-5/8" x 1-5/8"
 12 Gauge Channel
 Wt/100 Ft: 189 Lbs

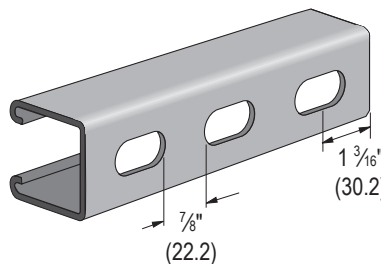


Materials & Finishes: PG, HG, PL, AL, SS, FG

Lengths: 10' & 20'



CH1000T
 1-5/8" x 1-5/8"
 12 Gauge Channel
 Wt/100 Ft: 185 Lbs



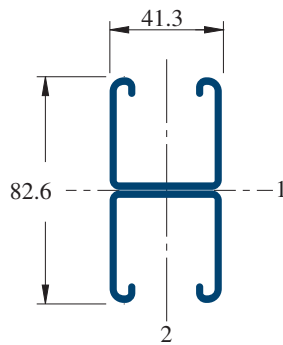
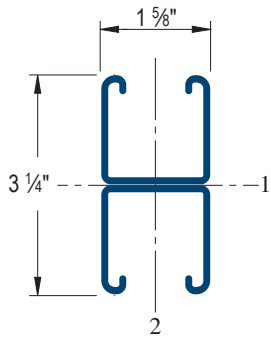
Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Centre

Materials & Finishes: PG, HG, PL, SS, FG

Lengths: 10' & 20'

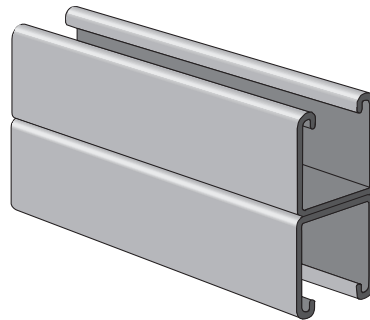
- Introduction
- Channel
- Concrete Inserts
- General Fittings
- Spring Nuts & Hardware
- Clamps & Pipe Supports
- Seismic
- Galvanizing Compound
- Rooftop Supports
- Erectastep
- Sign Posts
- Mechanical Tube
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- Introduction
- Channel**
- Concrete Inserts
- General Fittings
- Spring Nuts & Hardware
- Clamps & Pipe Supports
- Seismic
- Galvanizing Compound
- Rooftop Supports
- Erectastep
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- Mechanical Tube
- Index



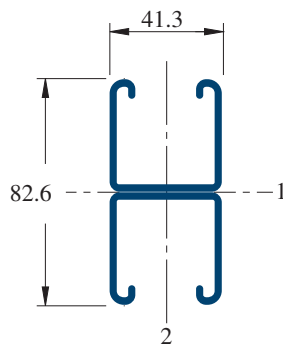
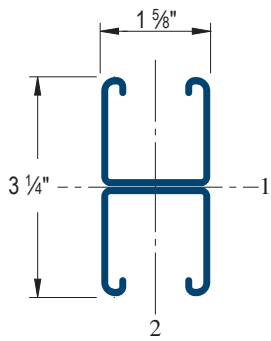
CH1001

3-1/4" x 1-5/8"
 12 Gauge Channel
 Wt/100 Ft:378 Lbs



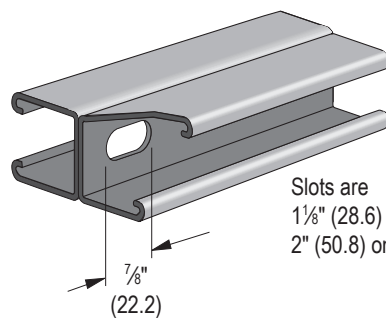
Materials & Finishes: PG, HG, PL, SS

Lengths: 10' & 20'



CH1001T

3-1/4" x 1-5/8"
 12 Gauge Channel
 Wt/100 Ft:321 Lbs

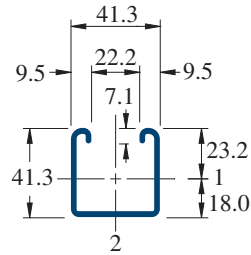
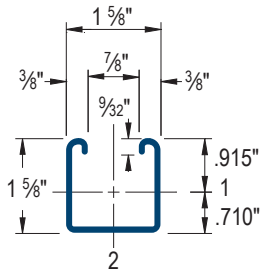


Slots are
 1 1/8" (28.6) x 9/16" (14.3)
 2" (50.8) on Centre

7/8"
 (22.2)

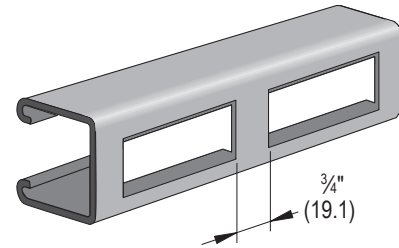
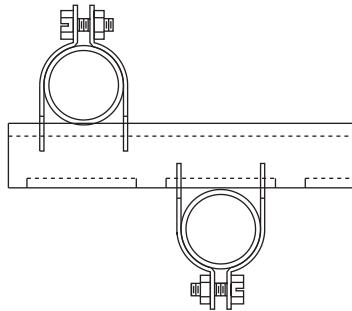
Materials & Finishes: PG, HG, SS

Lengths: 10' & 20'



CH1000DS

1-⁵/₈" x 1-⁵/₈"
12 Gauge Channel
Wt/100 Ft: 173 Lbs



Slots are 2³/₄" (69.9) x ⁷/₈" (22.2)
3¹/₂" (88.9) on Center

The unique oversized slots in the CH1000DS allow pipe clamps to be mounted on either side of the channel

Materials & Finishes: PG

Lengths: 10' & 20'



Beam Loading

Column Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH1000	24	1,690	0.06	1,690	1,690	1,690
CH1001		3,500*	0.02	3,500*	3,500*	3,500*
CH1000	36	1,130	0.13	1,130	1,130	900
CH1001		3,190	0.07	3,190	3,190	3,190
CH1000	48	850	0.22	850	760	500
CH1001		2,390	0.13	2,390	2,390	2,390
CH1000	60	680	0.35	650	480	320
CH1001		1,910	0.20	1,910	1,910	1,620
CH1000	72	560	0.50	450	340	220
CH1001		1,600	0.28	1,600	1,600	1,130
CH1000	84	480	0.68	330	250	160
CH1001		1,370	0.39	1,370	1,240	830
CH1000	96	420	0.89	250	190	130
CH1001		1,200	0.51	1,200	950	630
CH1000	108	380	1.14	200	150	100
CH1001		1,060	0.64	1,000	750	500
CH1000	120	340	1.40	160	120	80
CH1001		960	0.79	810	610	410
CH1000	144	280	2.00	110	80	60
CH1001		800	1.14	560	420	280
CH1000	168	240	2.72	80	60	40
CH1001		680	1.53	410	310	210
CH1000	192	210	3.55	60	50	NR
CH1001		600	2.02	320	240	160
CH1000	216	190	4.58	50	40	NR
CH1001		530	2.54	250	190	130
CH1000	240	170	5.62	40	NR	NR
CH1001		480	3.16	200	150	100

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH1000	24	3,550	10,740	9,890	8,770	7,740
CH1001		6,430	24,280	23,610	22,700	21,820
CH1000	36	3,190	8,910	7,740	6,390	5,310
CH1001		6,290	22,810	21,820	20,650	19,670
CH1000	48	2,770	7,260	6,010	4,690	3,800
CH1001		6,160	21,410	20,300	18,670	16,160
CH1000	60	2,380	5,910	4,690	3,630	2,960
CH1001		6,000	20,210	18,670	15,520	12,390
CH1000	72	2,080	4,840	3,800	2,960	2,400
CH1001		5,620	18,970	16,160	12,390	8,950
CH1000	84	1,860	4,040	3,200	2,480	1,980
CH1001		5,170	16,950	13,630	9,470	6,580
CH1000	96	1,670	3,480	2,750	2,110	1,660
CH1001		4,690	14,890	11,190	7,250	5,040
CH1000	108	1,510	3,050	2,400	1,810	**
CH1001		4,170	12,850	8,950	5,730	3,980
CH1000	120	1,380	2,700	2,110	**	**
CH1001		3,690	10,900	7,250	4,640	**
CH1000	144	1,150	2,180	1,660	**	**
CH1001		2,930	7,630	5,040	**	**

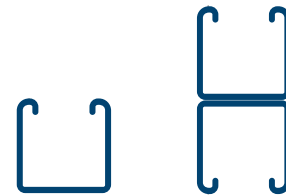
Notes:

* Load limited by spot weld shear.

** $KL/r > 200$

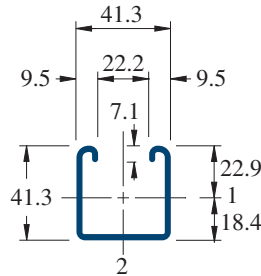
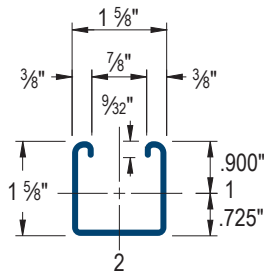
NR = Not Recommended.

1. Beam loads are given in *total* uniform load (W lbs) not uniform load (*w lbs/ft* or *w lbs/in*).
2. Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
3. For pierced channel, multiply beam loads by the following factor:
"T" Series - 85% **"DS" Series - 70%**
4. Deduct channel weight from the beam loads.
5. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
6. All beam loads are for bending about Axis 1-1.



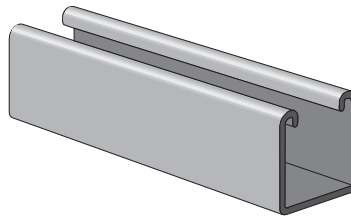
Elements of Section

Channel No.	Area of Section in ²	Axis 1-1			Axis 2-2		
		I in ⁴	s in ³	r in	I in ⁴	s in ³	r in
CH1000	0.555	0.185	0.202	0.577	0.236	0.290	0.651
CH1001	1.111	0.928	0.571	0.914	0.471	0.580	0.651



CH1100

1-5/8" x 1-5/8"
14 Gauge Channel
Wt/100 Ft: 142 Lbs



Materials & Finishes: PG

Lengths: 10' & 20'

CH1100 - Beam Loading

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,350	0.06	1,350	1,350	1,350
36	900	0.13	900	900	700
48	680	0.23	680	590	400
60	540	0.36	510	380	250
72	450	0.51	350	260	180
84	390	0.70	260	190	130
96	340	0.92	200	150	100
108	300	1.15	160	120	80
120	270	1.42	130	90	60
144	230	2.09	90	70	40
168	190	2.75	60	50	30
192	170	3.67	50	40	NR
216	150	4.61	40	30	NR
240	140	5.90	30	NR	NR

CH1100 - Column Loading

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	2,800	8,040	7,330	6,360	5,430
36	2,410	6,480	5,430	4,190	3,210
48	1,940	4,990	3,830	2,760	2,160
60	1,550	3,740	2,760	2,050	1,640
72	1,290	2,860	2,160	1,640	1,320
84	1,100	2,310	1,780	1,370	1,110
96	950	1,950	1,520	1,180	950
108	840	1,690	1,320	1,030	**
120	760	1,490	1,180	**	**
144	630	1,210	950	**	**

Notes:

** $KL/r > 200$

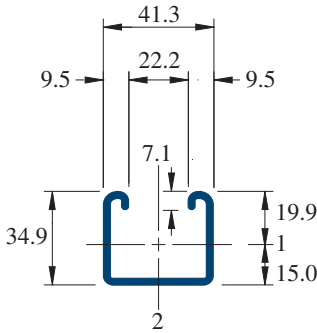
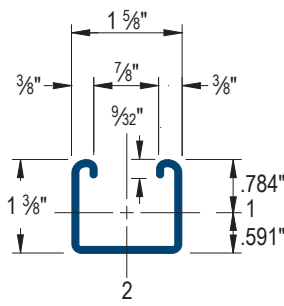
NR = Not Recommended.

- Beam loads are given in *total* uniform load (W Lbs) not uniform load (*w lbs/ft* or *w lbs/in*).
- Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
- All beam loads are for bending about Axis 1-1.



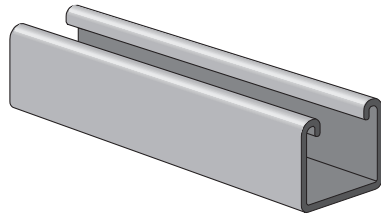
Elements of Section

Area of Section in ²	Axis 1-1			Axis 2-2		
	I in ⁴	s in ³	r in	I in ⁴	s in ³	r in
0.418	0.145	0.162	0.589	0.176	0.217	0.650



CH3000

1-3/8" x 1-5/8"
12 Gauge Channel
Wt/100 Ft: 170Lbs



Materials & Finishes: PG

Lengths: 10' & 20'

Beam Loading

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	1,280	0.07	1,280	1,280	1,280
36	850	0.15	850	850	580
48	640	0.26	640	490	330
60	510	0.41	420	310	210
72	430	0.59	290	220	150
84	370	0.81	210	160	110
96	320	1.05	160	120	80
108	280	1.30	130	100	60
120	260	1.66	100	80	50
144	210	2.32	70	50	40
168	180	3.15	50	40	30
192	160	4.18	40	30	NR
216	140	5.21	NR	NR	NR
240	130	6.64	NR	NR	NR

Column Loading

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	3,180	9,690	8,980	8,050	7,210
36	2,920	8,160	7,210	6,130	5,240
48	2,590	6,820	5,810	4,730	3,860
60	2,300	5,740	4,730	3,690	2,990
72	2,040	4,850	3,860	2,990	2,270
84	1,830	4,100	3,240	2,400	**
96	1,650	3,530	2,770	1,840	**
108	1,450	3,080	2,270	**	**
120	1,250	2,710	1,840	**	**



Elements of Section

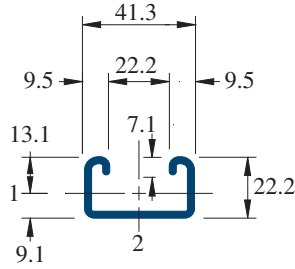
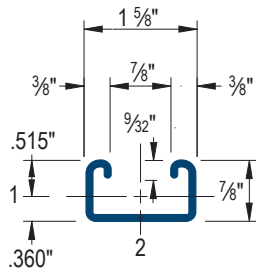
Area of Section in ²	Axis 1-1			Axis 2-2		
	I in ⁴	s in ³	r in	I in ⁴	s in ³	r in
0.500	0.120	0.153	0.489	0.203	0.250	0.638

Notes:

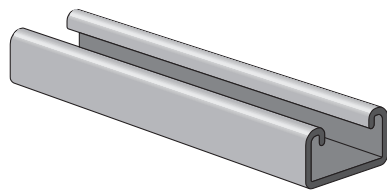
** Kl/r > 200

NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
3. Deduct channel weight from the beam loads.
4. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
5. All beam loads are for bending about Axis 1-1.

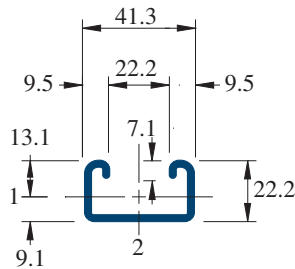
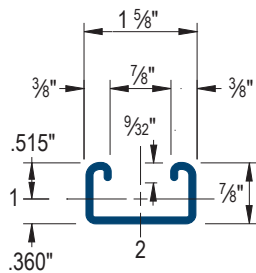


CH3300
 $\frac{7}{8}'' \times 1\text{-}\frac{5}{8}''$
 12 Gauge Channel
 Wt/100 Ft: 134 Lbs

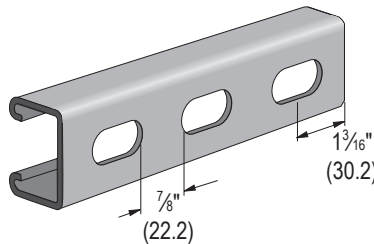


Materials & Finishes: PG, HG

Lengths: 10' & 20'



CH3300T
 $\frac{7}{8}'' \times 1\text{-}\frac{5}{8}''$
 12 Gauge Channel
 Wt/100 Ft: 130 Lbs

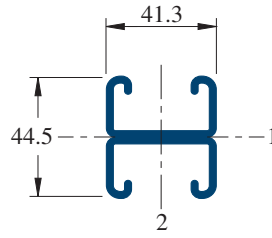
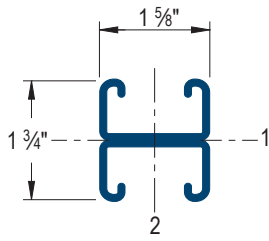


Slots are
 $1\frac{1}{8}'' (28.6) \times \frac{9}{16}'' (14.3)$
 2" (50.8) on Center

Materials & Finishes: PG, HG

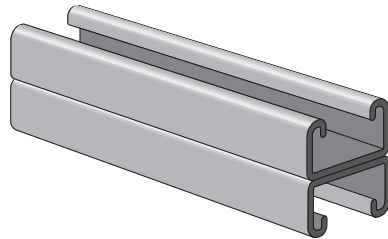
Lengths: 10' & 20'

- Introduction
- Channel**
- Concrete Inserts
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- Galvanizing Compound
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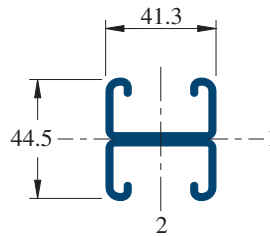
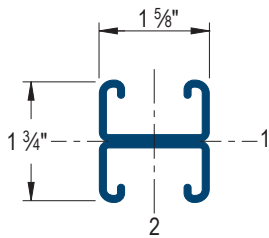
CH3301

1-3/4" x 1-5/8"
 12 Gauge Channel
 Wt/100 Ft: 269 Lbs



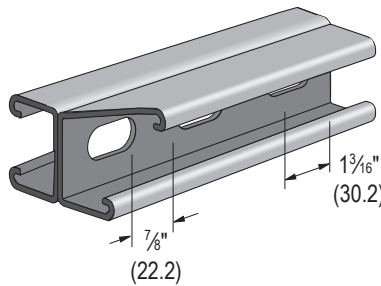
Materials & Finishes: PG, HG

Lengths: 10' & 20'



CH3301T

1-3/4" x 1-5/8"
 12 Gauge Channel
 Wt/100 Ft: 260 Lbs



Slots are
 1 1/8" (28.6) x 1/16" (14.3)
 2" (50.8) on Center

Materials & Finishes: PG

Lengths: 10' & 20'

Beam Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH3300	24	600	0.10	600	600	400
CH3301		1,690	0.06	1,690	1,690	1,690
CH3300	36	400	0.22	360	270	180
CH3301		1,130	0.13	1,130	1,130	860
CH3300	48	300	0.40	200	150	100
CH3301		840	0.23	840	720	480
CH3300	60	240	0.62	130	100	60
CH3301		680	0.37	620	460	310
CH3300	72	200	0.89	90	70	40
CH3301		560	0.52	430	320	210
CH3300	84	170	1.20	70	50	30
CH3301		480	0.71	310	240	160
CH3300	96	150	1.59	50	40	30
CH3301		420	0.93	240	180	120
CH3300	108	130	1.96	40	30	20
CH3301		380	1.20	190	140	100
CH3300	120	120	2.48	30	20	20
CH3301		340	1.47	150	120	80
CH3300	144	-	-	-	-	-
CH3301		280	2.09	110	80	50

Notes:

* Load limited by spot weld shear.

** $KL/r > 200$

NR = Not Recommended.

- Beam loads are given in *total* uniform load (W Lbs) not uniform load (*w lbs/ft* or *w lbs/in*).
- Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
- For pierced channel, multiply beam loads by the following factor:
"T" Series - 85%
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
- All beam loads are for bending about Axis 1-1.

Column Loading

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH3300	24	2,360	7,740	7,260	6,350	5,390
CH3301		4,290	16,990	16,580	15,770	14,720
CH3300	36	2,120	6,470	5,390	3,990	2,810
CH3301		4,150	15,890	14,720	12,980	11,120
CH3300	48	1,760	4,910	3,550	2,270	1,580
CH3301		3,940	14,160	12,360	9,880	7,510
CH3300	60	1,380	3,440	2,270	1,460	**
CH3301		3,650	12,210	9,880	6,940	4,820
CH3300	72	1,080	2,390	1,580	**	**
CH3301		3,270	10,190	7,510	4,820	3,350
CH3300	84	-	-	-	-	-
CH3301		2,800	8,220	5,530	3,540	**
CH3300	96	-	-	-	-	-
CH3301		2,410	6,420	4,240	**	**
CH3300	108	-	-	-	-	-
CH3301		2,080	5,070	3,350	**	**



Elements of Section

Channel No.	Area of Section in ²	Axis 1-1			Axis 2-2		
		I in ⁴	S in ³	r in	I in ⁴	S in ³	r in
CH3300	0.395	0.037	0.072	0.306	0.143	0.176	0.601
CH3301	0.790	0.176	0.201	0.472	0.285	0.351	0.601

Introduction

Channel

Concrete Inserts

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Spring Nuts & Hardware

Clamps & Pipe Supports

Seismic

Galvanizing Compound

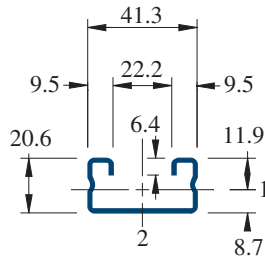
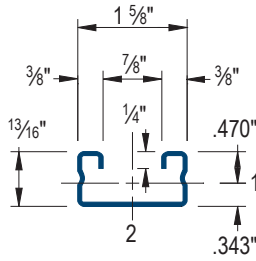
Roofing Supports

Erectastep

Sign Posts

Mechanical Tube

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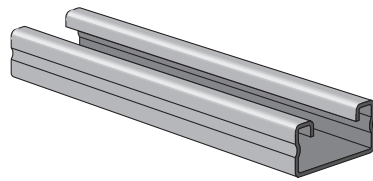


CH4000

¹³/₁₆" x 1-⁵/₈"

16 Gauge Channel

Wt/100 Ft: 83 Lbs



Materials & Finishes: PG, AL, SS

Lengths: 10' & 20'

Beam Loading

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	410	0.11	410	370	250
36	270	0.24	220	170	110
48	200	0.43	120	90	60
60	160	0.67	80	60	40
72	140	1.01	60	40	30
84	120	1.38	40	30	20
96	100	1.72	30	20	20
108	90	2.20	20	20	10
120	80	2.68	20	10	10

Column Loading

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	1,630	4,670	4,290	3,780	3,310
36	1,450	3,840	3,310	2,460	1,730
48	1,160	3,030	2,190	1,400	970
60	870	2,120	1,400	900	**
72	670	1,470	970	**	**

Notes:

** Kl/r > 200

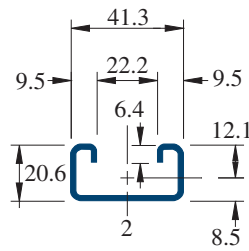
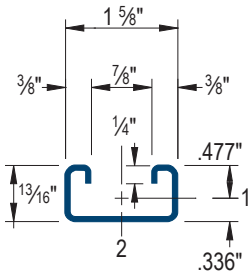
NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
3. Deduct channel weight from the beam loads.
4. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
5. All beam loads are for bending about Axis 1-1.

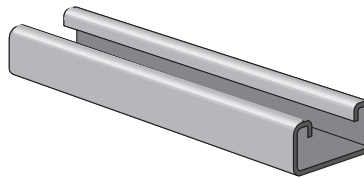


Elements of Section

Area of Section in ²	Axis 1-1			Axis 2-2		
	I in ⁴	S in ³	r in	I in ⁴	S in ³	r in
0.244	0.023	0.049	0.306	0.092	0.113	0.613

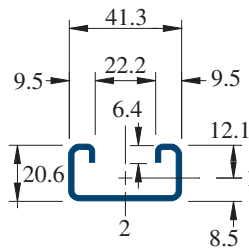
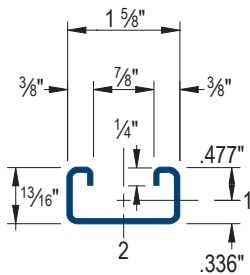


CH4100
 $1\frac{3}{16}'' \times 1\frac{5}{8}''$
 14 Gauge Channel
 Wt/100 Ft: 98 Lbs

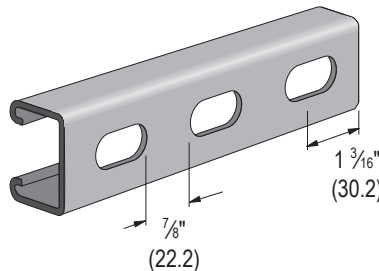


Materials & Finishes: PG, SS, PL

Lengths: 10' & 20'



CH4100T
 $1\frac{3}{16}'' \times 1\frac{5}{8}''$
 14 Gauge Channel
 Wt/100 Ft: 87 Lbs



Slots are
 $1\frac{1}{8}'' (28.6) \times \frac{9}{16}'' (14.3)$
 $2'' (50.8)$ on Center

Materials & Finishes: PG, SS

Lengths: 10' & 20'

Beam Loading

Span In	Max Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
			Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
24	450	0.11	450	420	280
36	300	0.24	250	190	130
48	230	0.44	140	110	70
60	180	0.67	90	70	50
72	150	0.96	60	50	30
84	130	1.32	50	30	20
96	110	1.67	40	30	20
108	100	2.16	30	20	10
120	90	2.67	20	20	10
144	80	4.09	20	NR	NR
168	60	4.88	NR	NR	NR
192	60	7.28	NR	NR	NR
216	50	8.64	NR	NR	NR
240	50	11.85	NR	NR	NR

Column Loading

Unbraced Height In	Maximum Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
		K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
24	1,840	5,610	5,210	4,570	3,850
36	1,640	4,660	3,850	2,800	1,960
48	1,310	3,490	2,480	1,590	1,100
60	1,000	2,400	1,590	**	**
72	770	1,670	1,100	**	**

Notes:

** Kl/r > 200

NR = Not Recommended.

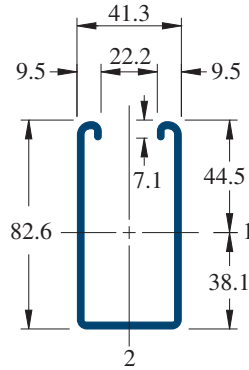
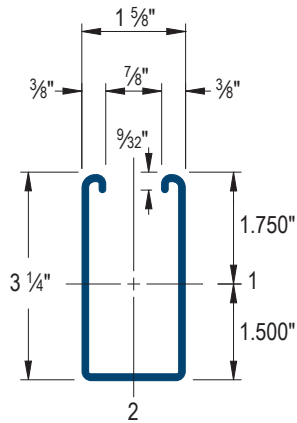
1. Beam loads are given in *total* uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
3. For pierced channel, multiply beam loads by the following factor:
"T" Series - 85%
4. Deduct channel weight from the beam loads.
5. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
6. All beam loads are for bending about Axis 1-1.



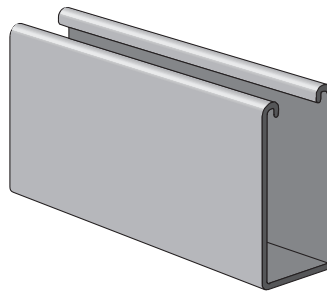
Elements of Section

Area of Section in ²	Axis 1-1			Axis 2-2		
	I in ⁴	s in ³	r in	I in ⁴	s in ³	r in
0.290	0.026	0.054	0.298	0.107	0.132	0.609



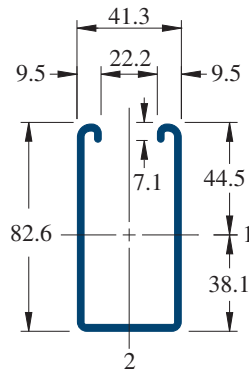
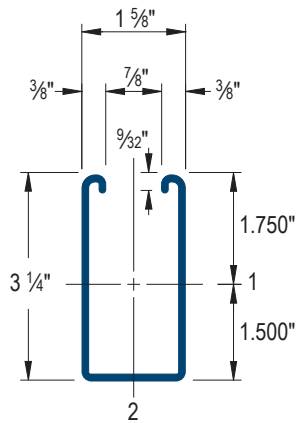


CH5000
 3-1/4" x 1-5/8"
 12 Gauge Channel
 Wt/100 Ft: 305 Lbs

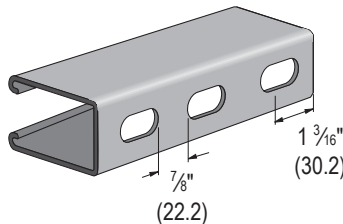


Materials & Finishes: PG

Lengths: 10' & 20'



CH5000T
 3-1/4" x 1-5/8"
 12 Gauge Channel
 Wt/100 Ft: 300 Lbs



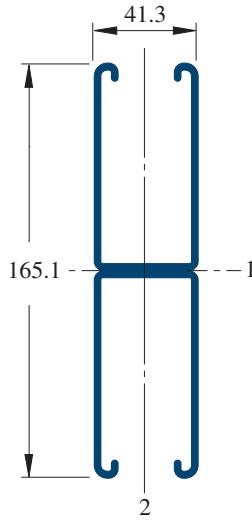
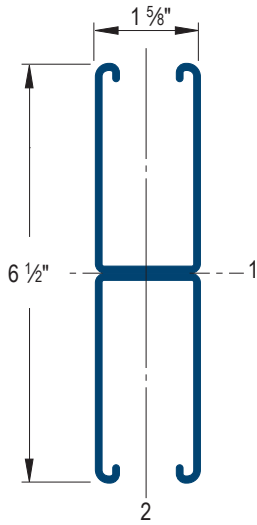
Slots are
 1 3/16" (28.6) x 7/8" (14.3)
 2" (50.8) on Center

Materials & Finishes: PG

Lengths: 10' & 20'

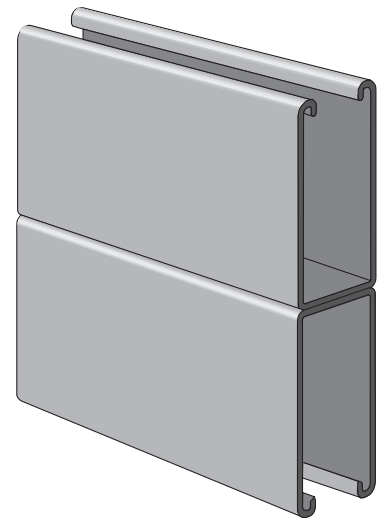
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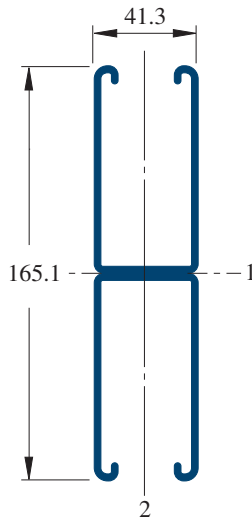
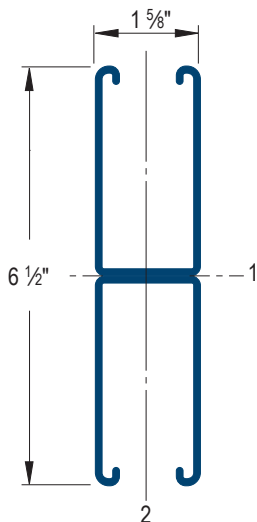
CH5001

6-1/2" x 1-5/8"
12 Gauge Channel
Wt/100 Ft: 610 Lbs



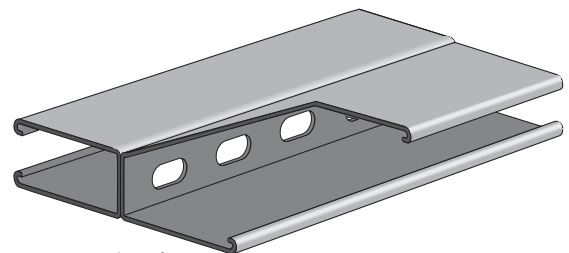
Materials & Finishes: PG

Lengths: 10' & 20'



CH5001T

6-1/2" x 1-5/8"
12 Gauge Channel
Wt/100 Ft: 600 Lbs



Slots are 1 1/8" x 9/16"
2" on Center

Materials & Finishes: PG

Lengths: 10' & 20'

Beam Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH5000	24	5,260	0.03	5,260	5,260	5,260
CH5001		6,890*	0.01	6,890*	6,890*	6,890*
CH5000	36	3,500	0.07	3,500	3,500	3,500
CH5001		6,890*	0.02	6,890*	6,890*	6,890*
CH5000	48	2,630	0.12	2,630	2,630	2,630
CH5001		6,890*	0.05	6,890*	6,890*	6,890*
CH5000	60	2,100	0.18	2,100	2,100	1,920
CH5001		6,420	0.10	6,420	6,420	6,420
CH5000	72	1,750	0.26	1,750	1,750	1,330
CH5001		5,350	0.14	5,350	5,350	5,350
CH5000	84	1,500	0.36	1,500	1,470	980
CH5001		4,590	0.19	4,590	4,590	4,590
CH5000	96	1,310	0.47	1,310	1,120	750
CH5001		4,020	0.25	4,020	4,020	4,020
CH5000	108	1,170	0.59	1,170	890	590
CH5001		3,570	0.32	3,570	3,570	3,360
CH5000	120	1,050	0.73	960	720	480
CH5001		3,210	0.39	3,210	3,210	2,720
CH5000	144	880	1.06	670	500	330
CH5001		2,680	0.57	2,680	2,680	1,890
CH5000	168	750	1.43	490	370	240
CH5001		2,290	0.77	2,290	2,080	1,390
CH5000	192	660	1.88	370	280	190
CH5001		2,010	1.01	2,010	1,590	1,060
CH5000	216	580	2.35	300	220	150
CH5001		1,780	1.27	1,680	1,260	840
CH5000	240	530	2.95	240	180	120
CH5001		1,610	1.58	1,360	1,020	680

Notes:

* Load limited by spot weld shear.

** $KL/r > 200$

NR = Not Recommended.

- Beam loads are given in *total* uniform load (W Lbs) not uniform load (*w lbs/ft or w lbs/in*).
- Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
- For pierced channel, multiply beam loads by the following factor:
"T" Series - 85%
- Deduct channel weight from the beam loads.
- For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
- All beam loads are for bending about Axis 1-1.

Column Loading

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH5000	24	5,650	16,870	15,180	12,850	10,600
CH5001		10,670	39,230	38,030	36,210	34,240
CH5000	36	4,690	13,140	10,600	7,650	5,660
CH5001		10,350	36,450	34,240	31,200	28,260
CH5000	48	3,560	9,550	6,860	4,790	3,660
CH5001		9,940	33,220	30,200	26,430	23,190
CH5000	60	2,730	6,680	4,790	3,450	2,710
CH5001		9,290	29,950	26,430	22,470	19,380
CH5000	72	2,160	4,980	3,660	2,710	2,170
CH5001		8,560	26,880	23,190	19,380	16,450
CH5000	84	1,760	3,950	2,960	2,240	1,820
CH5001		7,860	24,140	20,520	17,040	12,090
CH5000	96	1,500	3,270	2,500	1,930	1,580
CH5001		7,220	21,790	18,370	13,330	9,250
CH5000	108	1,310	2,800	2,170	1,690	1,390
CH5001		6,600	19,790	16,450	10,530	7,310
CH5000	120	1,170	2,450	1,930	1,510	**
CH5001		5,760	18,130	13,330	8,530	**
CH5000	144	980	1,980	1,580	**	**
CH5001		4,390	14,020	9,250	**	**
CH5000	168	850	1,670	1,340	**	**
CH5001		3,420	10,300	6,800	**	**

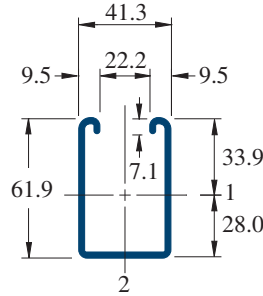
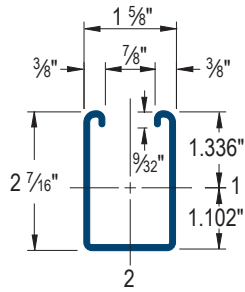


Elements of Section

Channel No.	Area of Section in ²	Axis 1-1			Axis 2-2		
		I in ⁴	s in ³	r in	I in ⁴	s in ³	r in
CH5000	0.897	1.098	0.627	1.107	0.433	0.533	0.695
CH5001	1.793	6.227	1.916	1.864	0.866	1.066	0.695

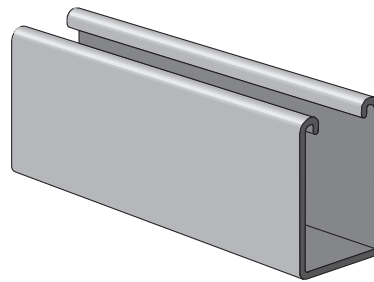
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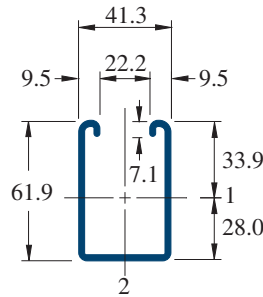
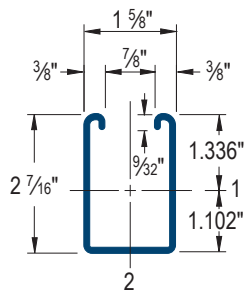
CH5500

2-7/16" x 1-5/8"
 12 Gauge Channel
 Wt/100 Ft: 247 Lbs



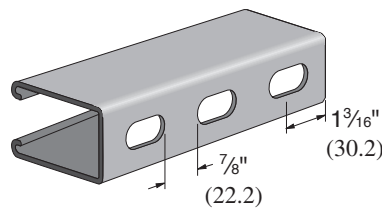
Materials & Finishes: PG

Lengths: 10' & 20'



CH5500T

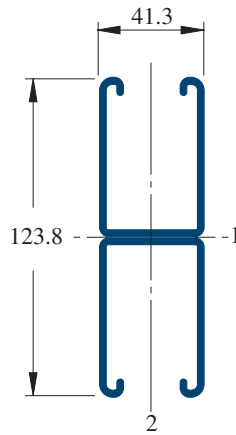
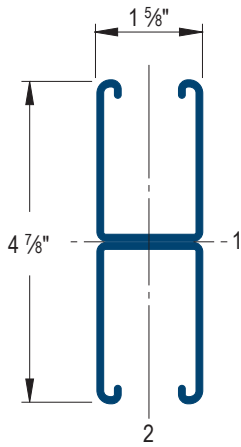
2-7/16" x 1-5/8"
 12 Gauge Channel
 Wt/100 Ft: 242 Lbs



Slots are
 1 1/8" (28.6) x 7/8" (14.3)
 2" (50.8) on Center

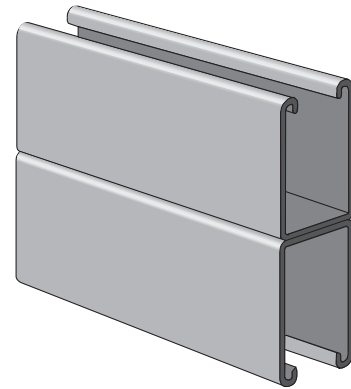
Materials & Finishes: PG

Lengths: 10' & 20'



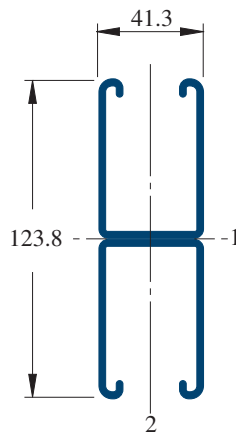
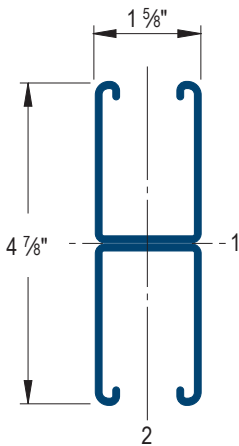
CH5501

4-7/8" x 1-5/8"
12 Gauge Channel
Wt/100 Ft: 494 Lbs



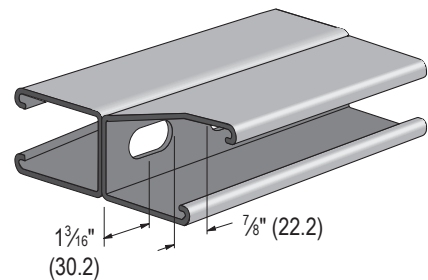
Materials & Finishes: PG

Lengths: 10' & 20'



CH5501T

4-7/8" x 1-5/8"
12 Gauge Channel
Wt/100 Ft: 494 Lbs



Slots are
1-1/8" (28.6) x 3/16" (14.3)
2" (50.8) on Center

Materials & Finishes: PG

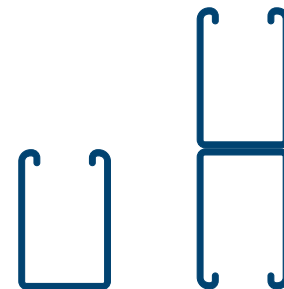
Lengths: 10' & 20'

Beam Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH5500	24	3,270	0.04	3,270	3,270	3,270
CH5501		5,220*	0.01	5,220*	5,220*	5,220*
CH5500	36	2,180	0.09	2,180	2,180	2,180
CH5501		5,220*	0.04	5,220*	5,220*	5,220*
CH5500	48	1,640	0.15	1,640	1,640	1,420
CH5501		4,820	0.08	4,820	4,820	4,820
CH5500	60	1,310	0.24	1,310	1,310	910
CH5501		3,860	0.13	3,860	3,860	3,860
CH5500	72	1,090	0.34	1,090	950	630
CH5501		3,220	0.19	3,220	3,220	3,220
CH5500	84	940	0.47	930	700	470
CH5501		2,760	0.26	2,760	2,760	2,500
CH5500	96	820	0.61	710	530	360
CH5501		2,410	0.34	2,410	2,410	1,920
CH5500	108	730	0.78	560	420	280
CH5501		2,140	0.42	2,140	2,140	1,510
CH5500	120	650	0.95	460	340	230
CH5501		1,930	0.52	1,930	1,840	1,230
CH5500	144	550	1.39	320	240	160
CH5501		1,610	0.76	1,610	1,280	850
CH5500	168	470	1.89	230	170	120
CH5501		1,380	1.03	1,250	940	630
CH5500	192	410	2.46	180	130	90
CH5501		1,210	1.35	960	720	480
CH5500	216	360	3.07	140	110	70
CH5501		1,070	1.70	760	570	380
CH5500	240	330	3.86	110	90	60
CH5501		960	2.09	610	460	310

Column Loading

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH5500	24	4,640	13,840	12,570	10,840	9,190
CH5501		8,580	31,810	30,880	29,520	28,100
CH5500	36	3,970	11,050	9,190	7,030	5,370
CH5501		8,350	29,700	28,100	26,000	24,070
CH5500	48	3,180	8,420	6,390	4,620	3,630
CH5501		8,080	27,390	25,330	22,910	20,940
CH5500	60	2,550	6,250	4,620	3,450	2,780
CH5501		7,720	25,170	22,910	20,510	17,170
CH5500	72	2,120	4,790	3,630	2,780	2,260
CH5501		7,270	23,190	20,940	17,170	12,700
CH5500	84	1,810	3,890	3,010	2,330	1,910
CH5501		6,780	21,510	18,740	13,430	9,330
CH5500	96	1,580	3,290	2,580	2,020	1,650
CH5501		6,130	20,110	15,630	10,290	7,150
CH5500	108	1,400	2,860	2,260	1,770	1,440
CH5501		5,450	17,750	12,700	8,130	5,650
CH5500	120	1,270	2,530	2,020	1,580	**
CH5501		4,800	15,260	10,290	6,590	**
CH5500	144	1,060	2,070	1,650	**	**
CH5501		3,760	10,830	7,150	**	**
CH5500	168	920	1,750	1,380	**	**
CH5501		2,970	7,950	5,250	**	**



Elements of Section

Channel No.	Area of Section in ²	Axis 1-1			Axis 2-2		
		I in ⁴	s in ³	r in	I in ⁴	s in ³	r in
CH5500	0.726	0.522	0.390	0.848	0.334	0.411	0.679
CH5501	1.452	2.805	1.151	1.390	0.669	0.823	0.679

Notes:

* Load limited by spot weld shear.

** $KL/r > 200$

NR = Not Recommended.

1. Beam loads are given in total uniform load (W lbs) not uniform load (*w lbs/ft* or *w lbs/in*).
2. Beam loads are based on a simple span and must be adequately laterally braced. Unbraced spans can reduce beam load carrying capacity.
3. For pierced channel, multiply beam loads by the following factor:
"T" Series - 85%
4. Deduct channel weight from the beam loads.
5. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.
6. All beam loads are for bending about Axis 1-1.

CLOSURE STRIP AND END CAPS

CH3184

Wt/100 Ft: 47 Lbs

Materials & Finishes: PG Lengths: 10'

CH3712P

Colour: Black.

Wt/100 Ft: 5.4 Lbs

Materials & Finishes: Plastic Lengths: 10'

GF1280

Use with CH1000

Materials & Finishes: EG

GF1280W

Use with CH1000

Materials & Finishes: EG

GF2407

Use with CH1000

Materials & Finishes: EG

GF3280

Use with CH3000 or CI3270

Materials & Finishes: EG

GF3380

Use with CH3300 or CI3370

Materials & Finishes: EG

GF5580

Use with CH5500

Materials & Finishes: EG

Other sizes available by special order only. Minimum quantities may apply.

GF2860-10

Use with:
CH1000
CH1100
CH2000
CH9000

Materials & Finishes: VY

GF2860-33

Use with:
CH3300

Materials & Finishes: VY

GF2860-50

Use with:
CH5000
CH1001

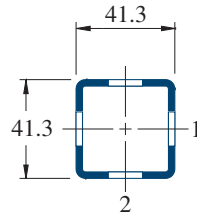
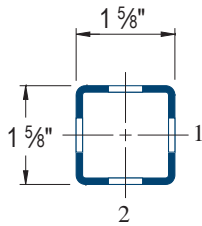
Materials & Finishes: VY

GF2860-55

Use with:
CH5500

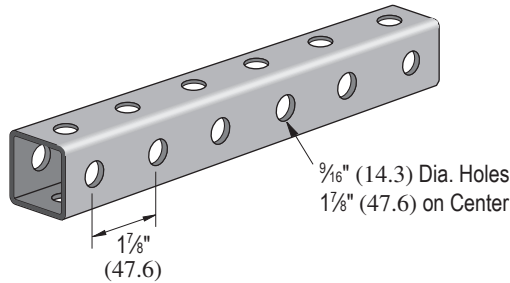
Materials & Finishes: VY

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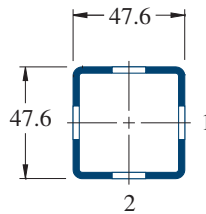
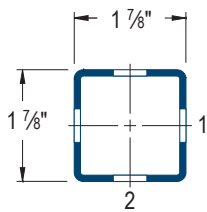
CH9000

1-5/8" x 1-5/8"
12 Gauge
Wt/100 Ft: 188 Lbs



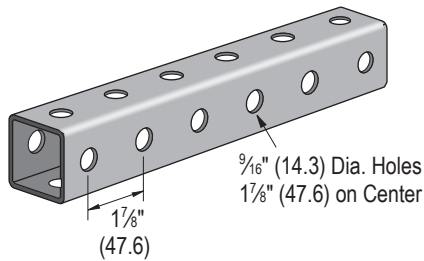
Materials & Finishes: PG

Lengths: 10' & 20'



CH9200

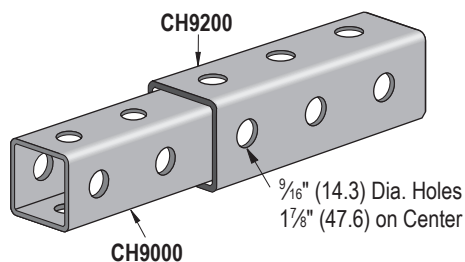
1-7/8" x 1-7/8"
12 Gauge
Wt/100 Ft: 223 Lbs



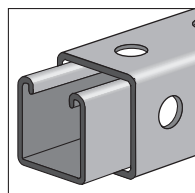
Materials & Finishes: PG

Lengths: 10' & 20'

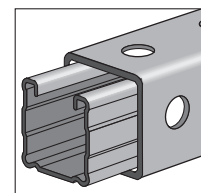
Telescoping Strut's Power



Telescoping strut can be combined with metal framing channel



CH1000 Series



CH1100 Series

Beam Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH9000	24	1,710	0.06	1,710	1,710	1,710
CH9200		2,490	0.05	2,490	2,490	2,490
CH9000	36	1,140	0.14	1,140	1,140	810
CH9200		1,660	0.12	1,660	1,660	1,350
CH9000	48	860	0.25	860	680	450
CH9200		1,250	0.22	1,250	1,140	760
CH9000	60	690	0.40	580	440	290
CH9200		1,000	0.34	980	730	490
CH9000	72	570	0.57	400	300	200
CH9200		830	0.49	680	510	340
CH9000	84	490	0.77	300	220	150
CH9200		710	0.67	500	370	250
CH9000	96	430	1.01	230	170	110
CH9200		620	0.87	380	290	190
CH9000	108	380	1.27	180	130	90
CH9200		550	1.10	300	230	150
CH9000	120	340	1.56	150	110	70
CH9200		500	1.37	240	180	120
CH9000	144	290	2.30	100	80	50
CH9200		420	1.98	170	130	80
CH9000	168	240	3.02	70	60	40
CH9200		360	2.70	120	90	60
CH9000	192	210	3.95	60	40	NR
CH9200		310	3.47	100	70	50
CH9000	216	190	5.09	40	NR	NR
CH9200		280	4.47	80	60	NR
CH9000	240	170	6.24	40	NR	NR
CH9200		250	5.47	60	50	NR

Column Loading

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Maximum Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH9000	24	3,640	8,730	8,570	8,330	8,040
CH9200		4,620	11,120	10,980	10,740	10,460
CH9000	36	3,540	8,360	8,040	7,530	6,950
CH9200		4,530	10,770	10,460	9,950	9,370
CH9000	48	3,400	7,880	7,340	6,530	5,660
CH9200		4,390	10,300	9,760	8,940	8,030
CH9000	60	3,210	7,290	6,530	5,440	4,360
CH9200		4,220	9,720	8,940	7,800	6,590
CH9000	72	2,990	6,640	5,660	4,360	3,160
CH9200		4,000	9,050	8,030	6,590	5,180
CH9000	84	2,730	5,940	4,790	3,340	2,320
CH9200		3,750	8,320	7,080	5,410	3,890
CH9000	96	2,430	5,220	3,940	2,560	1,780
CH9200		3,460	7,560	6,110	4,290	2,980
CH9000	108	2,110	4,520	3,160	2,020	1,400
CH9200		3,140	6,770	5,180	3,390	2,360
CH9000	120	1,820	3,840	2,560	1,640	**
CH9200		2,790	5,990	4,290	2,750	1,910
CH9000	144	1,390	2,690	1,780	**	**
CH9200		2,170	4,510	2,980	1,910	**
CH9000	168	-	-	-	-	-
CH9200		1,720	3,320	2,190	**	**

Notes:

** $KL/r > 200$

NR = Not Recommended.

1. Beam loads are given in total uniform load (W Lbs) not uniform load (w lbs/ft or w lbs/in).
2. Deduct Telescoping strut weight from the beam loads.
3. For concentrated midspan point loads, multiply beam loads by 50% and the corresponding deflection by 80%.

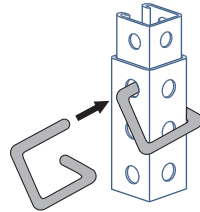


Elements of Section

Channel No.	Area of Section in ²	Axis 1-1			Axis 2-2		
		I in ⁴	S in ³	r in	I in ⁴	S in ³	r in
CH9000	0.387	0.166	0.205	0.655	0.166	0.205	0.655
CH9200	0.489	0.279	0.297	0.755	0.279	0.297	0.755

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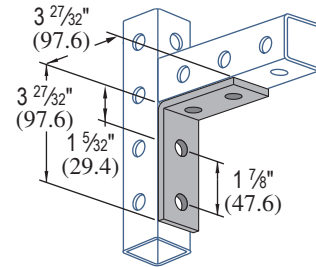
GF9209 - GRAVITY PIN



Materials & Finishes: EG

Wt/100 pcs: 47 Lbs

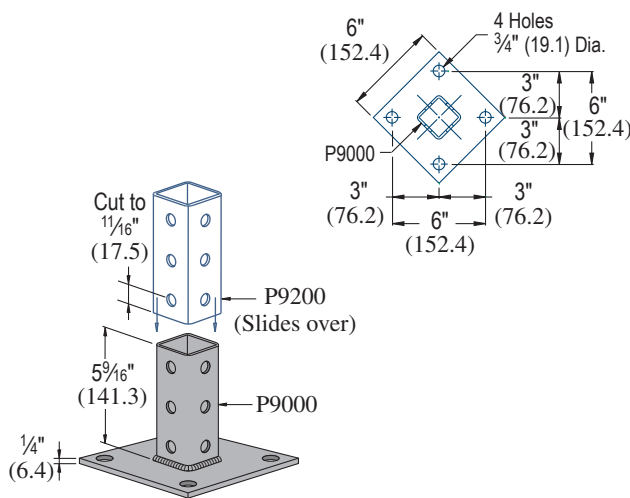
GF9324



Materials & Finishes: EG

Wt/100 pcs: 78 Lbs

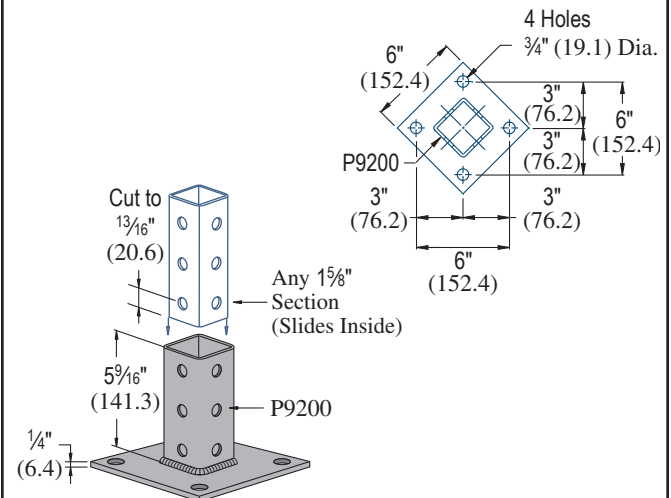
GF9011



Materials & Finishes: GR

Wt/100 pcs: 332 Lbs

GF9012



Materials & Finishes: GR

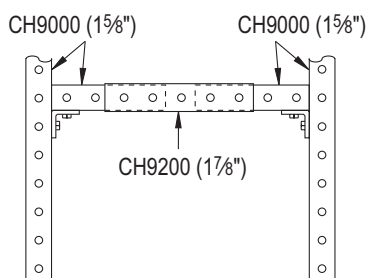
Wt/100 pcs: 340 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

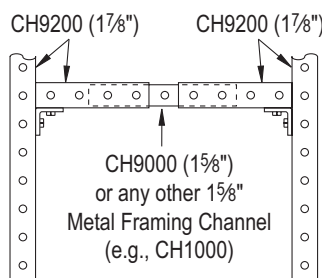
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 1/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6mm)

Telescoping Strut's Assembly

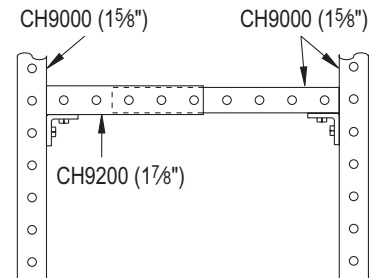
Preferred Three-Piece Assembly



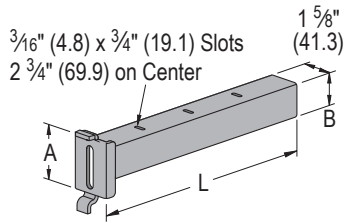
Alternate Three-Piece Assembly



Two-Piece Assembly



CB2920 THRU CB2924 – CABLE BRACKETS



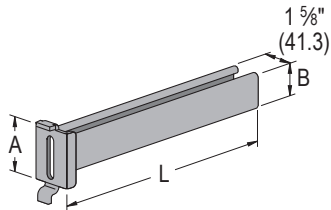
Material: 12 gauge steel.

Part Number	"L" In (mm)	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs	Uniform Design Load Lbs
CB2920	5½ 139.7	3½ 88.9	7⁄8 22.2	90	500
CB2921	8¼ 209.6	3½ 88.9	7⁄8 22.2	120	325
CB2922	11 279.4	3½ 88.9	1½ 41.3	300	275
CB2923	13¾ 349.3	3½ 88.9	1½ 41.3	340	220
CB2924	19¼ 489.0	3½ 88.9	1½ 41.3	430	160

Safety factor of 3.

Materials & Finishes: HG

CB2929 & CB2930 – CABLE BRACKETS



Material: 12 gauge steel.

Part Number	"L" In (mm)	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs	Uniform Design Load Lbs
CB2929	12 304.8	3½ 88.9	1½ 41.3	320	250
CB2930	18 457.2	3½ 88.9	1½ 41.3	420	170

Safety factor of 3.

Materials & Finishes: HG

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Compound

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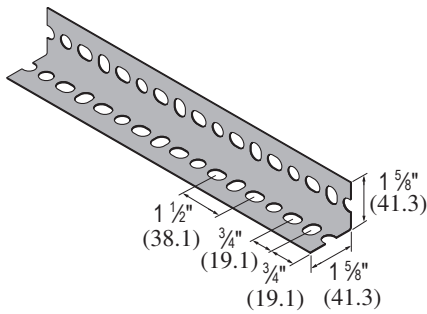
Erectastep

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CSA158 - (1 5/8" X 1 5/8" X 14 GA.) LIGHT DUTY



For those jobs where extra strength is not necessary. Ideal for light-duty shelving or racking.

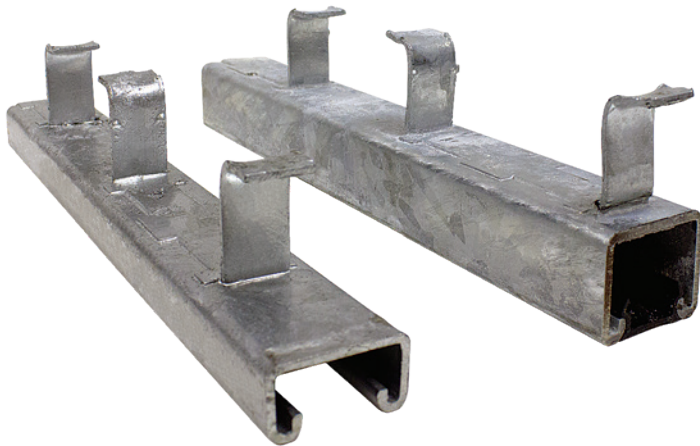
Length: 10'

Materials & Finishes: PG

Wt/100 pcs: 66 Lbs

UBS Industries can cut, drill and punch holes for your custom trapezing applications. Contact us for more information.





Heavy-Duty Inserts.....44
Light-Duty Inserts.....44

MATERIALS & FINISHES

Cold-formed inserts are manufactured from standard 12 gauge UBS channel sections.

To inhibit concrete seepage, all inserts (except spot inserts) are provided with closure strips and end caps or foam filler, unless otherwise requested.

Most concrete inserts are available in stainless steel on special order. Consult UBS for ordering information.

Cold-formed, standard-duty, light-duty and spot concrete inserts are available in:

FINISH: HOT-DIPPED GALVANIZED (HG)

For other materials, contact your UBS representative.

APPLICATION

A wide range of heavy-duty to light-duty "continuous" and "spot" concrete inserts are available for use in pre-cast, pre-stressed or poured-in-place concrete floors, walls or ceilings.

DESIGN LOAD

Design loads, where shown, are based on 3,000 PSI concrete, unless noted.

LENGTHS

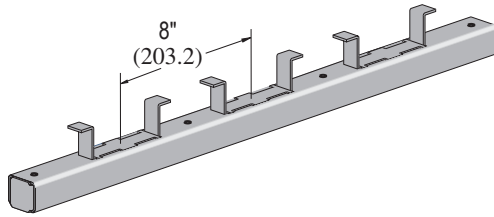
20 feet (6.10m) with a tolerance of $\pm 1/4$ -inch (6.4mm), or we can cut to size as needed.

DIMENSIONS

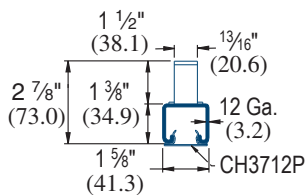
Imperial dimensions are illustrated in inches. Metric dimensions are shown in parentheses or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

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CI3270 - HEAVY DUTY CONCRETE INSERT



- Includes closure and end caps unless otherwise requested.
- Nail or anchor inserts to forms every 16" (406.4 mm) to 24" (609.6 mm).
- Anchors are 8" (203.2 mm) on center.
- Finish: Hot-dipped galvanized (HG) conforming to ASTM A123 or A153.



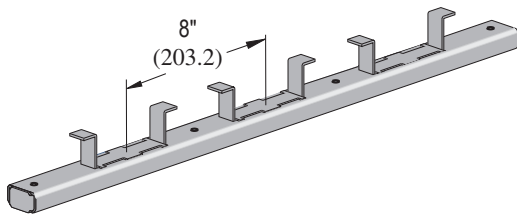
Part Number	Insert Length In/Ft. (mm)	Wt/100 pcs Lbs	Max. Allowable Point Load Lbs	Min. Spacing of Pt. Loads In (mm)	Max. Allowable Uniform Load Lbs
CI3270	20' 6,096.0	3,882	2,000	12 304.8	2,000 Lbs./Ft.

Safety factor 3.

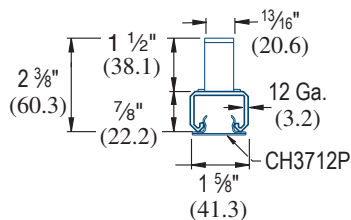
Materials & Finishes: HG

Lengths: 20'

CI3370 - LIGHT DUTY CONCRETE INSERT



- Includes closure and end caps unless otherwise requested.
- Nail or anchor inserts to forms every 16" (406.4 mm) to 24" (609.6 mm).
- Anchors are 8" (203.2 mm) on center.
- Finish: Hot-dipped galvanized (HG) conforming to ASTM A123 or A153.



Part Number	Insert Length In/Ft. (mm)	Wt/100 pcs Lbs	Max. Allowable Point Load Lbs	Min. Spacing of Pt. Loads In (mm)	Max. Allowable Uniform Load Lbs
CI3370	20' 6,096.0	2,775	1,500	12 304.8	1,500 Lbs./Ft.

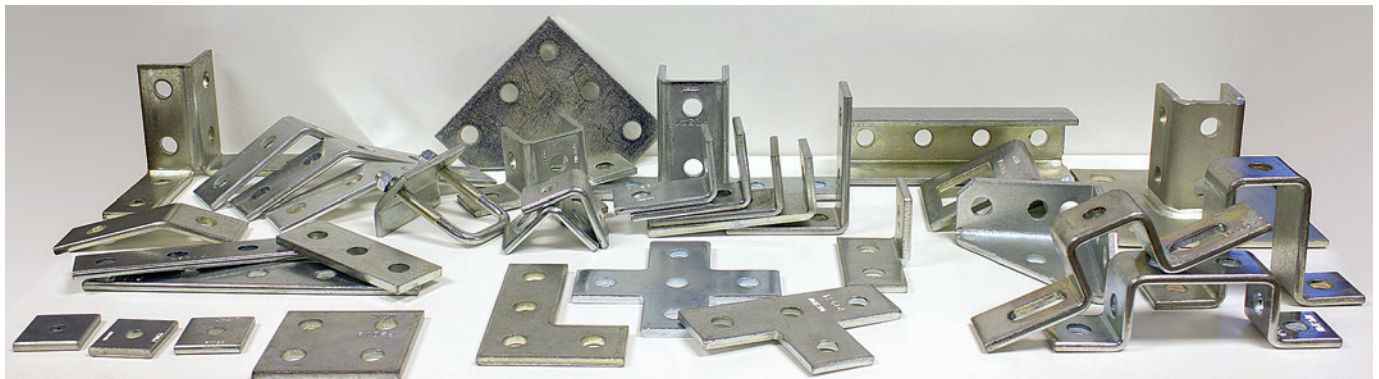
Safety factor 3.

Materials & Finishes: HG

Lengths: 20'



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MATERIALS & FINISHES

Fittings are available in:

STEEL: ELECTRO-GALVANIZED (EG)

STEEL: HOT-DIPPED GALVANIZED (HG)

STAINLESS STEEL (SS)

For other materials and finishes, contact your UBS representative.

DESIGN LOAD

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 2.5, unless otherwise noted.

DESIGN BOLT TORQUE

BOLT SIZE	1/4"-20	5/16"-18	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Rec. Torque Ft/Lbs (N•m)	6 (8)	11 (15)	19 (26)	50 (68)	100 (136)	125 (170)
Max Torque Ft/Lbs (N•m)	7 (9)	15 (20)	25 (34)	70 (95)	125 (170)	135 (183)

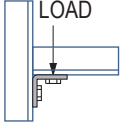
SET SCREW TORQUE

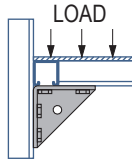
BOLT SIZE	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10	7/8"-9
Set Screw Torque In/Lbs (N•m)	40 (4)	60 (7)	125 (14)	250 (28)	400 (44.5)	665 (75)

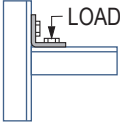
Note: Caution should be taken not to overtighten the set screw

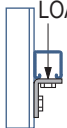
DESIGN LOAD DATA FOR TYPICAL UBS CHANNEL CONNECTIONS

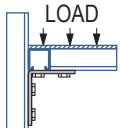
90° Fittings (When used in position shown)

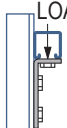
Load – GF1026	Channel Thickness		
	12 ga.	14 ga.	16 ga.
	Lbs 6.67	Lbs 4.45	Lbs 3.34
	kN	kN	kN
	1,500	1,000	750

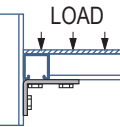
Load – GF2484	Channel Thickness		
	12 ga.	14 ga.	16 ga.
	Lbs 13.34	Lbs 8.90	Lbs 6.67
	kN	kN	kN
	3,000	2,000	1,500

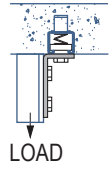
Load – GF1026	Channel Thickness		
	12 ga.	14 ga.	16 ga.
	Lbs 4.45	Lbs 2.89	Lbs 2.22
	kN	kN	kN
	1,000	650	500

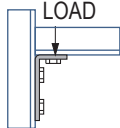
Load – GF1068	Channel Thickness		
	12 ga.	14 ga.	16 ga.
	Lbs 2.22	Lbs 2.22	Lbs 2.22
	kN	kN	kN
	500	500	500


Load – GF1325	Channel Thickness		
	12 ga.	14 ga.	16 ga.
	Lbs 8.90	Lbs 8.90	Lbs 6.67
	kN	kN	kN
	2,000	2,000	1,500

Load – GF1326	Channel Thickness		
	12 ga.	14 ga.	16 ga.
	Lbs 2.22	Lbs 2.22	Lbs 2.22
	kN	kN	kN
	500	500	500

Load – GF1458	Channel Thickness		
	12 ga.	14 ga.	16 ga.
	Lbs 6.67	Lbs 4.45	Lbs 4.45
	kN	kN	kN
	1,500	1,000	1,000

Load – GF1346	Channel Thickness		
	12 ga.	14 ga.	16 ga.
	Lbs 5.34	Lbs 5.34	Lbs 4.45
	kN	kN	kN
	1,200	1,200	1,000

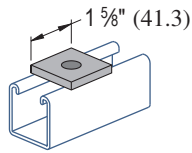
Load – GF1346	Channel Thickness		
	12 ga.	14 ga.	16 ga.
	Lbs 8.90	Lbs 6.67	Lbs 4.00
	kN	kN	kN
	2,000	1,500	900

Load – GF1065	Channel Thickness		
	12 ga.	14 ga.	16 ga.
	Lbs 4.45	Lbs 3.56	Lbs 2.67
	kN	kN	kN
	1,000	800	600

Note:

- (1) Both ends of beams supported.
- (2) Load data is based on SN1010 nut and 1/2" bolt.
- (3) Safety factor = 2 1/2 based on ultimate strength of connection.

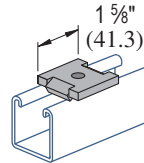
GF1062, GF1063, GF1064, GF1964



Part Number	Bolt Size
GF1062	5/16"
GF1063	3/8"
GF1064	1/2"
GF1964	5/8"

Materials & Finishes: EG, HG, SS

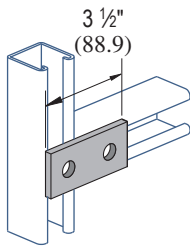
GF2863, GF2864



Part Number	Bolt Size
GF2863	3/8"
GF2864	1/2"

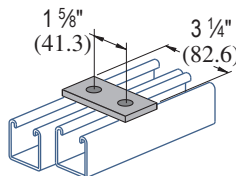
Materials & Finishes: EG

GF1065



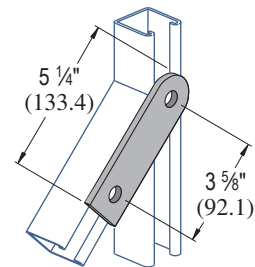
Materials & Finishes: EG Wt/100 pcs: 38 Lbs

GF1924



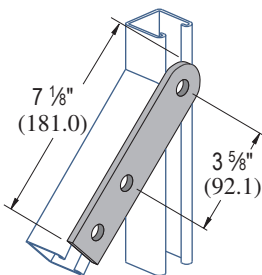
Materials & Finishes: EG Wt/100 pcs: 35 Lbs

GF2325



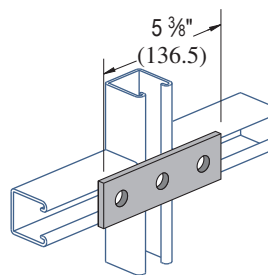
Materials & Finishes: EG Wt/100 pcs: 55 Lbs

GF2324



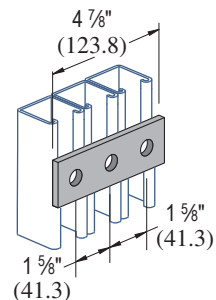
Materials & Finishes: EG Wt/100 pcs: 75 Lbs

GF1066



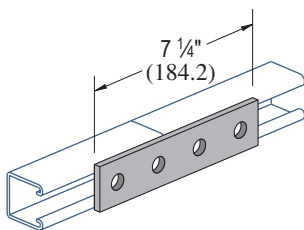
Materials & Finishes: EG Wt/100 pcs: 56 Lbs

GF1925



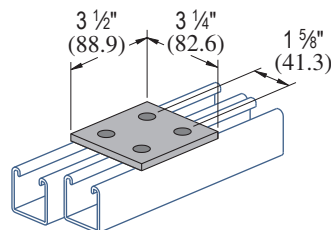
Materials & Finishes: EG Wt/100 pcs: 50 Lbs

GF1067



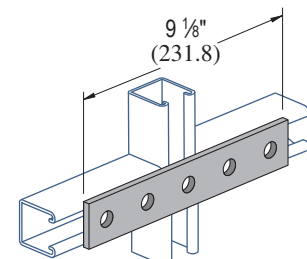
Mat/Fin: EG, HG Wt/100 pcs: 78 Lbs

GF2079



Materials & Finishes: HG Wt/100 pcs: 73 Lbs

GF1941



Materials & Finishes: EG Wt/100 pcs: 94 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

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GF1036

Mat/Fin: EG, HG Wt/100 pcs: 58 Lbs

GF1380

Materials & Finishes: EG Wt/100 pcs: 105 Lbs

GF1380A

Mat/Fin: EG, HG Wt/100 pcs: 80 Lbs

GF1873

Materials & Finishes: EG Wt/100 pcs: 150 Lbs

GF1031

Mat/Fin: EG, HG Wt/100 pcs: 80 Lbs

GF1028

Mat/Fin: EG, HG Wt/100 pcs: 105 Lbs

GF1356

Materials & Finishes: EG Wt/100 pcs: 70 Lbs

GF1358

Materials & Finishes: EG Wt/100 pcs: 105 Lbs

GF1726

Materials & Finishes: EG Wt/100 pcs: 148 Lbs

GF1950

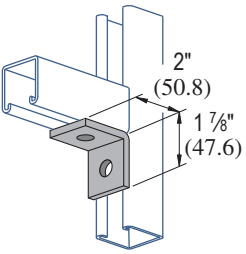
Materials & Finishes: EG Wt/100 pcs: 240 Lbs



Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

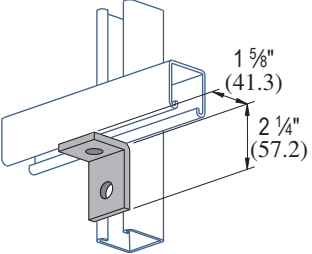
Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

GF1026



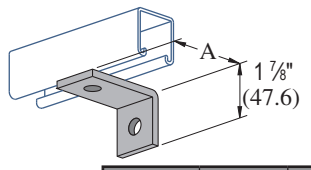
Matl/Fin: EG, HG, SS Wt/100 pcs: 38 Lbs

GF1068



Matl/Fin: EG, SS Wt/100 pcs: 38 Lbs

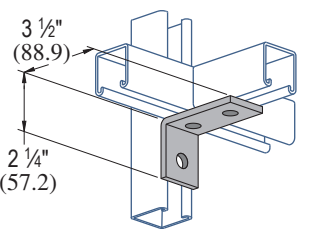
GF1281 & GF1283



Part Number	"A" In (mm)	Wt/100 pcs Lbs
GF1281	3 (76.2)	49
GF1283	4 (101.6)	61

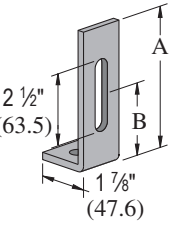
Materials & Finishes: EG, HG

GF1458



Matl/Fin: EG, HG Wt/100 pcs: 58 Lbs

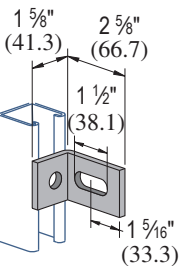
GF1498 & GF1499



Part Number	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs
GF1498	4 7/8 123.8	2 1/2 63.5	65
GF1499	6 1/8 174.6	4 1/2 114.3	85

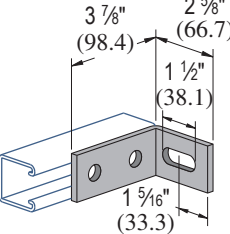
Materials & Finishes: EG

GF1750



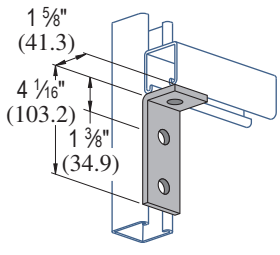
Materials & Finishes: EG Wt/100 pcs: 38 Lbs

GF1747



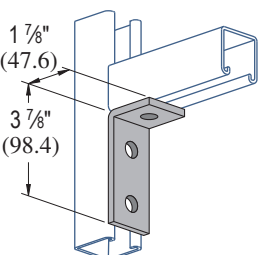
Materials & Finishes: EG Wt/100 pcs: 66 Lbs

GF1326



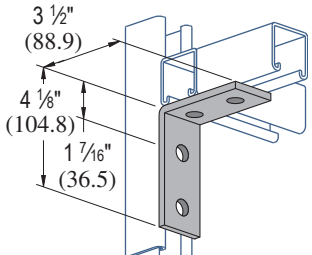
Materials & Finishes: EG Wt/100 pcs: 58 Lbs

GF1346



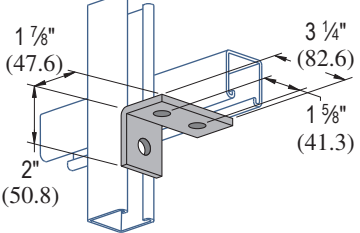
Matl/Fin: EG, HG Wt/100 pcs: 58 Lbs

GF1325



Matl/Fin: EG, HG, SS Wt/100 pcs: 78 Lbs

GF1822



Materials & Finishes: EG Wt/100 pcs: 55 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)
 Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

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GF1823

Materials & Finishes: EG Wt/100 pcs: 55 Lbs

GF1033

Materials & Finishes: EG Wt/100 pcs: 80 Lbs

GF1038

Materials & Finishes: EG Wt/100 pcs: 58 Lbs

GF1357

Materials & Finishes: EG Wt/100 pcs: 70 Lbs

GF1359

Materials & Finishes: EG Wt/100 pcs: 105 Lbs

GF1934

Materials & Finishes: EG Wt/100 pcs: 75 Lbs

GF1727

Materials & Finishes: EG Wt/100 pcs: 154 Lbs

GF1728

Materials & Finishes: EG Wt/100 pcs: 154 Lbs

GF2626

Materials & Finishes: EG Wt/100 pcs: 40 Lbs

GF2484

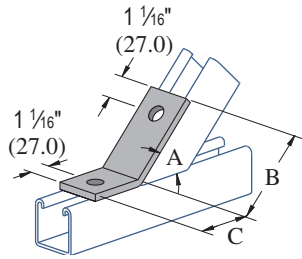
Materials & Finishes: EG Wt/100 pcs: 134 Lbs

GF2484W

Materials & Finishes: EG Wt/100 pcs: 134 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)
 Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

GF1546 & GF2097

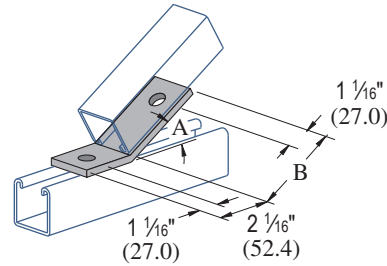


Part No.	"A" Degree (rad)	"B" In (mm)	"C" In (mm)
GF1546	45° 0.79	3 76.2	2 ⁵ / ₁₆ 58.7
GF2097	60° 1.05	3 ³ / ₈ 85.7	1 ⁷ / ₈ 47.6

Materials & Finishes: EG, HG, & SS

Wt/100 pcs: 58 Lbs

GF2101 & GF2103

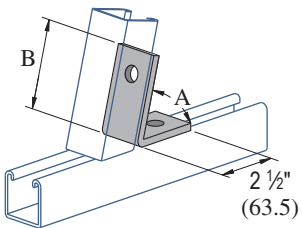


Part No.	"A" Degree (rad)	"B" In (mm)
GF2101	30° 0.52	3/4 82.6
GF2103	15° 0.26	3 ³ / ₁₆ 84.1

Materials & Finishes: EG

Wt/100 pcs: 58 Lbs

GF2108 & GF1186



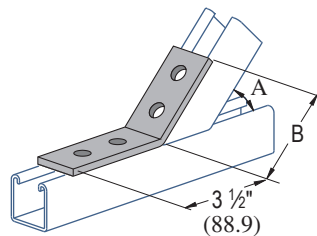
Part Number	"A" Degree (rad)	"B" In (mm)
GF1186	45° 0.79	3 ¹ / ₈ 79.4
GF2108	60° 1.05	3 ³ / ₁₆ 81.0

* Other angles available
- Special order - Minimum quantity may apply

Materials & Finishes: EG

Wt/100 pcs: 58 Lbs

GF2263, GF2265, GF2267

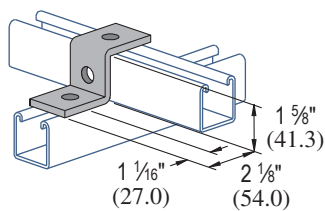


Part Number	"A" Degree (rad)	"B" In (mm)
GF2263	30° 0.52	3 ¹ / ₁₆ 93.7
GF2265	45° 0.79	3 ¹ / ₁₆ 93.7
GF2267	60° 1.05	3 ¹ / ₁₆ 93.7

Materials & Finishes: EG

Wt/100 pcs: 78 Lbs

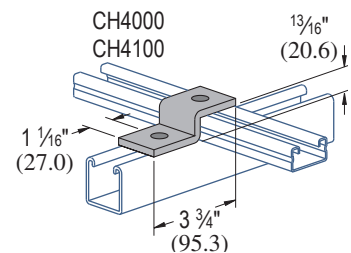
GF1045



Materials & Finishes: EG

Wt/100 pcs: 55 Lbs

GF4045

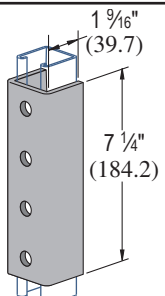


Materials & Finishes: EG

Wt/100 pcs: 47 Lbs

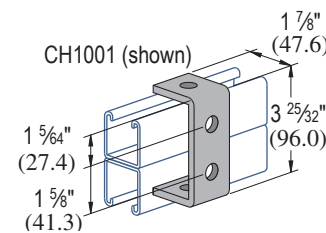
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GF1377



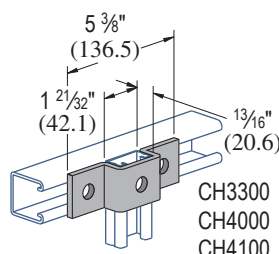
Matl/Fin: EG, HG Wt/100 pcs: 265 Lbs

GF1044



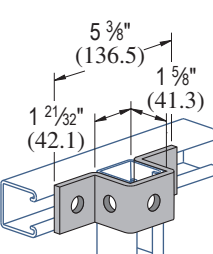
Materials & Finishes: EG Wt/100 pcs: 70 Lbs

GF4047



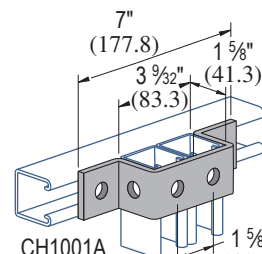
Materials & Finishes: EG Wt/100 pcs: 71 Lbs

GF1047



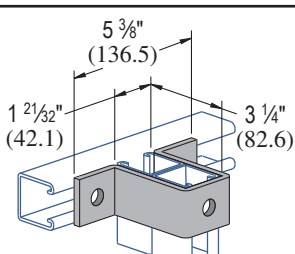
Matl/Fin: EG, HG Wt/100 pcs: 88 Lbs

GF1043A



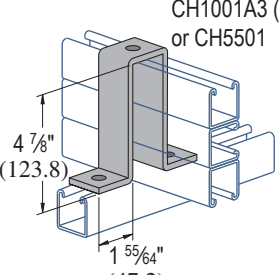
Materials & Finishes: EG Wt/100 pcs: 105 Lbs

GF1737



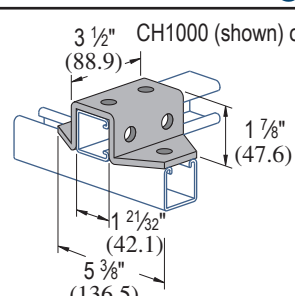
Materials & Finishes: EG Wt/100 pcs: 128 Lbs

GF2473



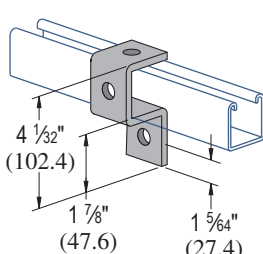
Materials & Finishes: EG Wt/100 pcs: 197 Lbs

GF2326

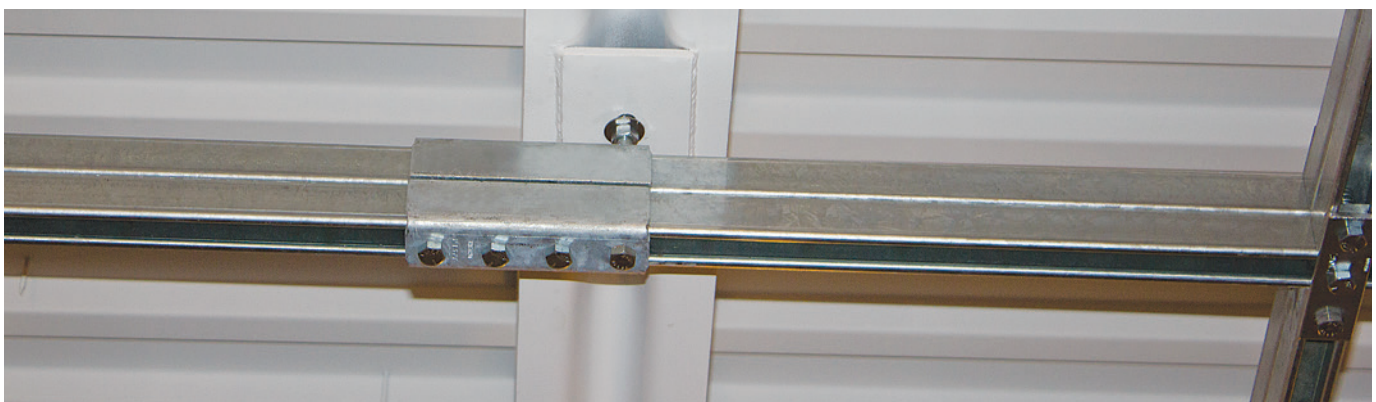


Materials & Finishes: EG Wt/100 pcs: 171 Lbs

GF1046A



Materials & Finishes: EG Wt/100 pcs: 76 Lbs



Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)
 Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

GF2341R-L

R - As shown
L - Opposite hand

Materials & Finishes: EG Wt/100 pcs: 60 Lbs

GF2223

Materials & Finishes: EG Wt/100 pcs: 76 Lbs

GF2225

Materials & Finishes: EG Wt/100 pcs: 155 Lbs

GF2227

Materials & Finishes: EG Wt/100 pcs: 113 Lbs

GF2228

Materials & Finishes: EG Wt/100 pcs: 177 Lbs

GF2229

Materials & Finishes: EG Wt/100 pcs: 230 Lbs

GF2345

Materials & Finishes: EG Wt/100 pcs: 93 Lbs

GF2346

Materials & Finishes: EG Wt/100 pcs: 150 Lbs

GF2347

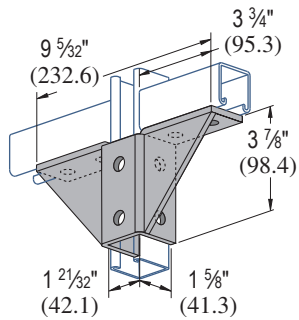
Materials & Finishes: EG Wt/100 pcs: 193 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

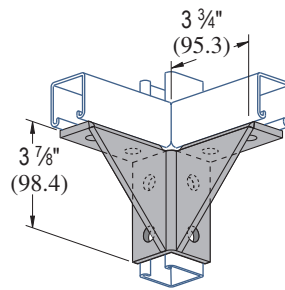
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GF2348



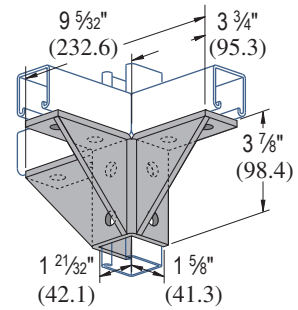
Materials & Finishes: EG Wt/100 pcs: 274 Lbs

GF2226



Materials & Finishes: EG Wt/100 pcs: 217 Lbs

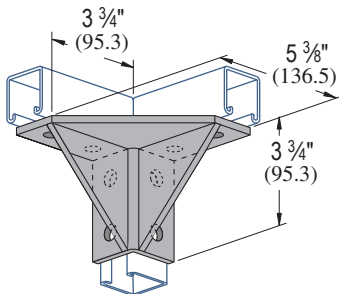
GF2230



Materials & Finishes: EG Wt/100 pcs: 310 Lbs

GF2245

Fitting notched for continuous vertical.



Materials & Finishes: EG Wt/100 pcs: 315 Lbs



Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

GF2072A

Materials & Finishes: EG Wt/100 pcs: 373 Lbs

GF2072ASQ

Materials & Finishes: EG, HG Wt/100 pcs: 373 Lbs

GF2073A

Materials & Finishes: HG Wt/100 pcs: 408 Lbs

GF2073ASQ

Materials & Finishes: EG, HG Wt/100 pcs: 408 Lbs

GF2453

Materials & Finishes: EG Wt/100 pcs: 116 Lbs

GF2941 & GF2942

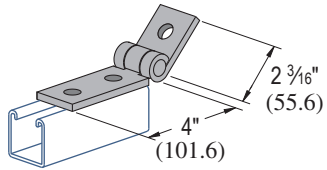
Materials & Finishes: EG Wt/100 pcs: 358 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)
 Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

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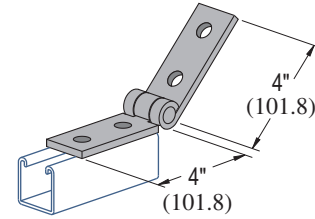
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GF1354A - ADJ. HINGE CONNECTION



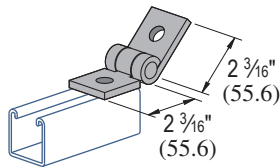
Materials & Finishes: EG Wt/100 pcs: 89 Lbs

GF1354 - ADJ. HINGE CONNECTION



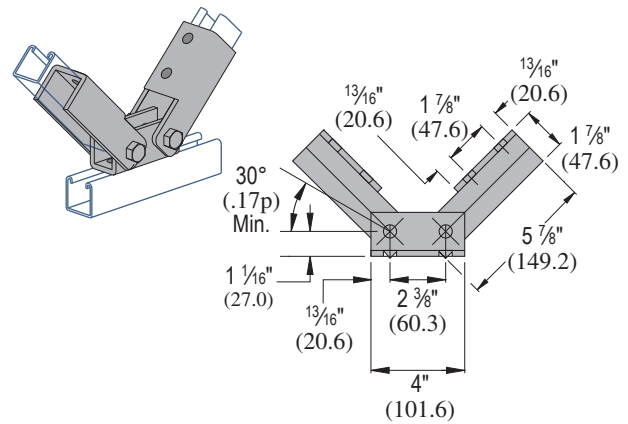
Materials & Finishes: EG Wt/100 pcs: 109 Lbs

GF1843 - ADJ. HINGE CONNECTION



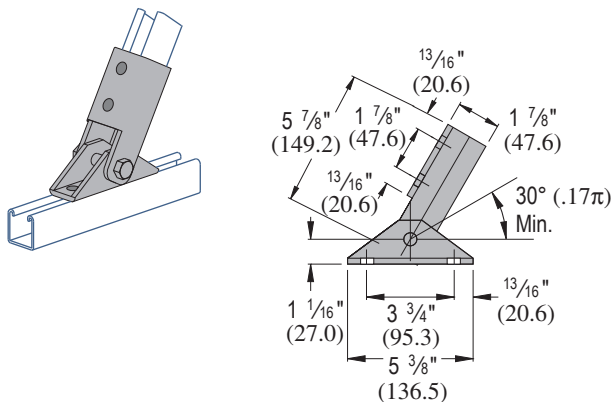
Materials & Finishes: EG Wt/100 pcs: 68 Lbs

GF2815D - ADJ. BRACE FITTING



Materials & Finishes: HG Wt/100 pcs: 497 Lbs

GF2815 - ADJ. BRACE FITTING

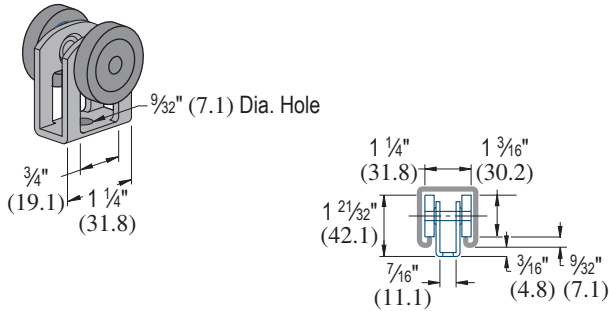


Materials & Finishes: HG Wt/100 pcs: 307 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

GF2749 & GF2749N†

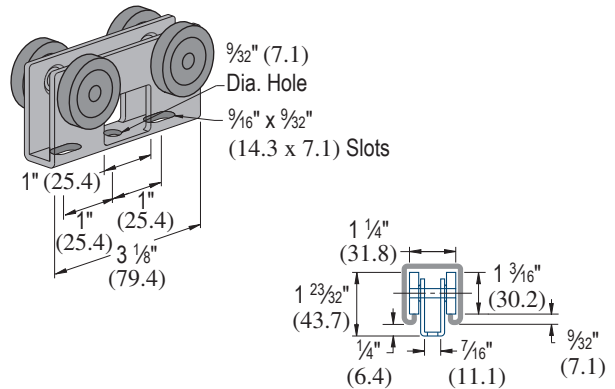


Part Number	Design Load Lbs	Wt/100 pcs Lbs
GF2749	50	21
GF2749 N	10	13

Clevis Material: 12 gauge.
† "N" indicates acetal wheels.

Materials & Finishes: EG

GF2750 & GF2750N†

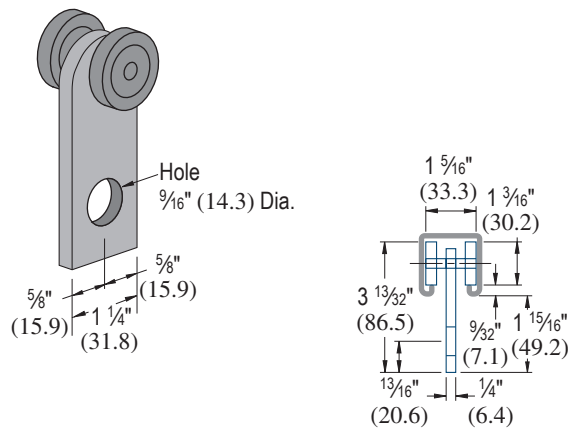


Part Number	Design Load Lbs	Wt/100 pcs Lbs
GF2750	100	55
GF2750 N	20	32

Clevis Material: 12 gauge.
† "N" indicates acetal wheels.

Materials & Finishes: EG

GF2949

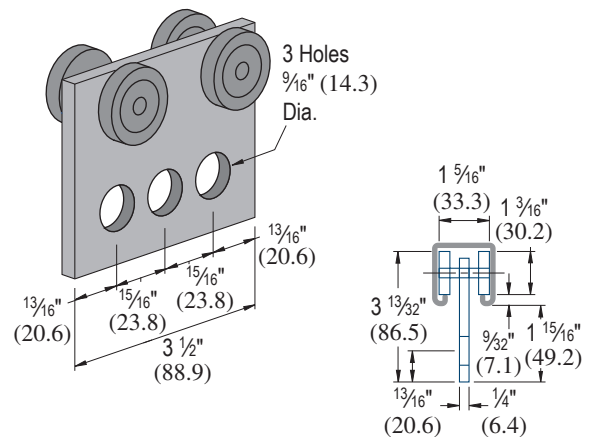


FPM	RPM	Design Load In P1000 Lbs
180	600	150
90	300	225
30	100	437

Materials & Finishes: EG

Wt/100 pcs: 46 Lbs

GF2950



FPM	RPM	Design Load In P1000 Lbs
180	600	300
90	300	450
30	100	600

Materials & Finishes: EG

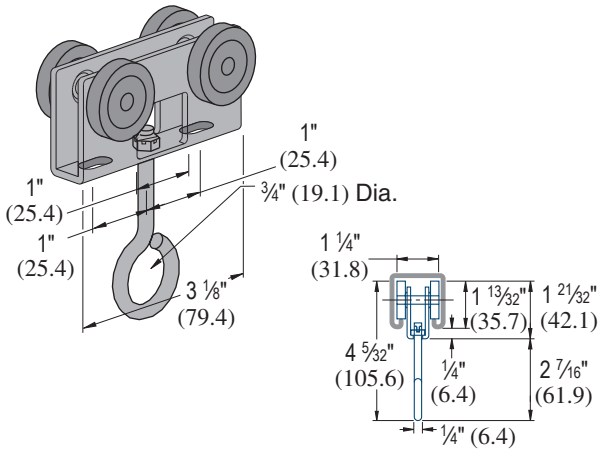
Wt/100 pcs: 110 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)
Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

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GF2751 & GF2751N†

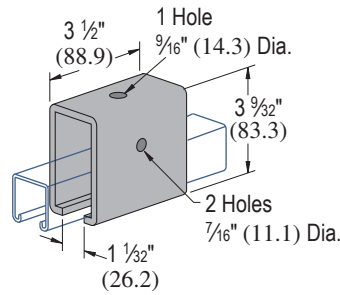


Part Number	Design Load Lbs	Wt/100 pcs Lbs
GF2751	100	63
GF2751 N	20	40

Clevis Material: 12 gauge.
† "N" indicates acetal wheels.

Materials & Finishes: EG

GF1834A - CHANNEL SUPPORT TROLLEY



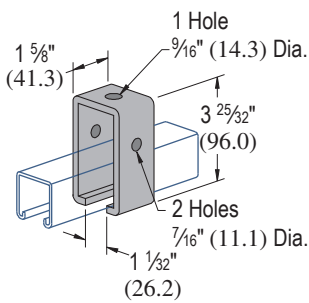
Requires 3/8" x 2 1/2" Bolt and 3/8" Nut
(not included)

Design Load
2,500 Lbs
(11.12 Kn)

Materials & Finishes: EG

Wt/100 pcs: 497 Lbs

GF1834 - CHANNEL SUPPORT TROLLEY



Requires 3/8" x 2 1/2" Bolt and 3/8" Nut
(not included)

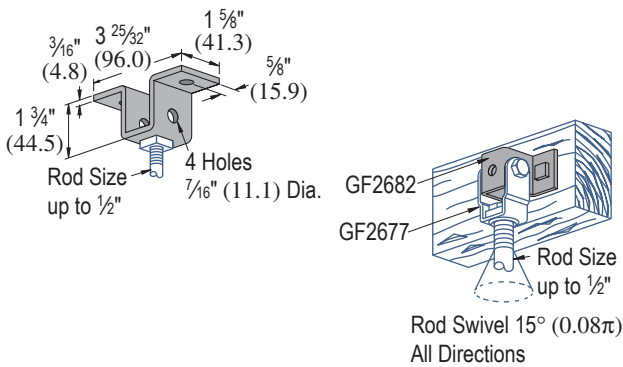
Design Load
1,200 Lbs
(5.34 Kn)

Materials & Finishes: EG

Wt/100 pcs: 497 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)
Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)
Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

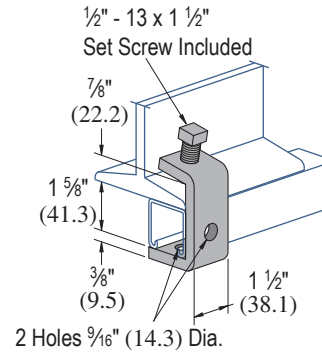
GF2682



Hanger clevis for up to 1/2" (12.7) rod suspension from wood ceilings. May also be used with GF2677 as illustrated in application drawings.

Materials & Finishes: EG Wt/100 pcs: 55 Lbs

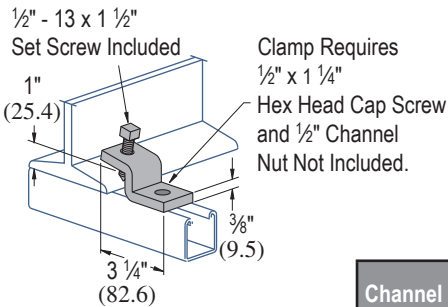
GF1271S



Note: Requires SN1010 Channel Nut and bolt.

Materials & Finishes: EG Wt/100 pcs: 307 Lbs

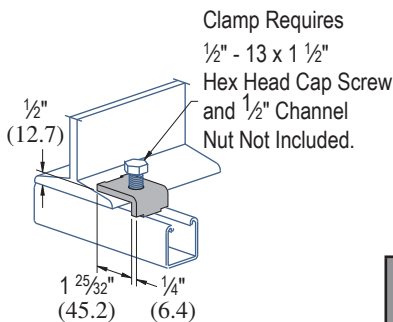
GF1379S



Channel Style	Design Load Each Lbs (Use in Pairs Only)
CH1000	600
CH1100	500

Materials & Finishes: EG Wt/100 pcs: 75 Lbs

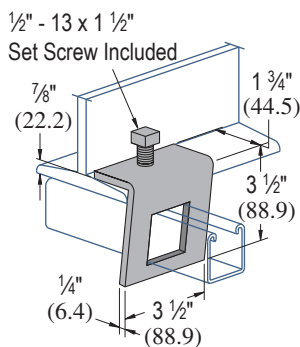
GF1386



Channel Style	Design Load Each Lbs (Use in Pairs Only)
CH1000	600
CH1100	500

Materials & Finishes: EG Wt/100 pcs: 27 Lbs

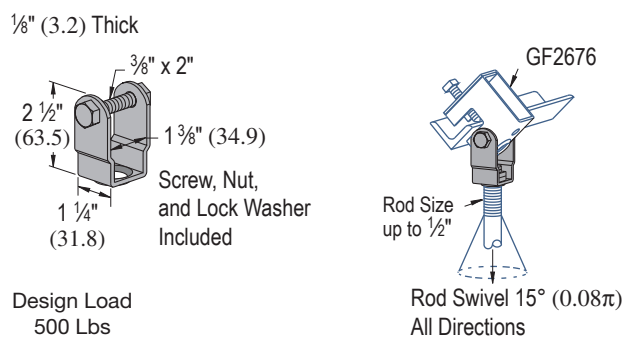
GF1796S



Channel Style	Design Load Each Lbs (Use in Pairs Only)
CH1000	500

Materials & Finishes: EG Wt/100 pcs: 91 Lbs

GF2677



Design Load 500 Lbs

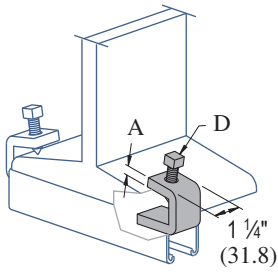
Clevis hanger to be used with GF2676 or GF2682 to provide angle adjustment and 15° (0.08 π) free swing for up to 1/2" (12.7) rod suspension. Order swivel nuts GF2679-4, -6, or -8 as required.

Materials & Finishes: EG Wt/100 pcs: 91 Lbs

Note: When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping. Clamps are designed to be used with W, M, S & HP Shape beams, Standard C & Misc. MC Channels, Angles & Structural Tees. Clamps must be used in pairs where indicated. For beam clamps with HG finish, standard hardware is EG finish. For optional stainless steel hardware, please contact the UBS for availability.

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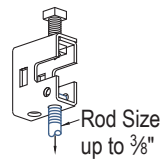
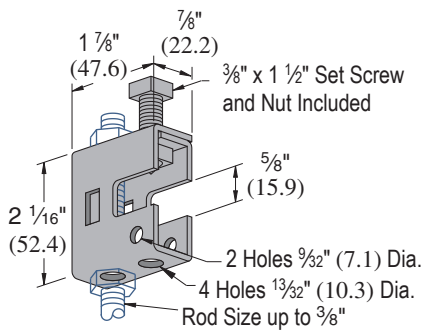
GF1272S & GF1986S



Part Number	"A" In (mm)	Flange Thickness In (mm)	"D" Set Screw Included	Wt/100 pcs Lbs	Design Load Per Pair Lbs (Use in Pairs Only)
GF1272S	1/4	Up to 3/4	3/8-16 x 1 1/2	39	450
	6.4	Up to 19.1			
GF1986S	3/8	7/8 to 2	1/2-13 x 1 1/2	74	900
	9.5	22.2 - 50.8			

Materials & Finishes: EG

GF2675



Design Load
250 Lbs



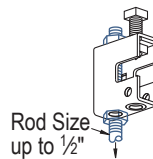
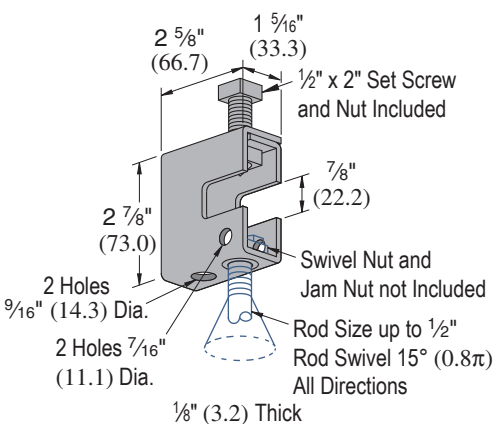
Design Load
150 Lbs

Clamp Materials: .105" (2.7) thick steel.
Clamp GF2675 is designed for light duty rod suspension.

Materials & Finishes: EG

Wt/100 pcs: 91 Lbs

GF2676



Design Load
300 Lbs

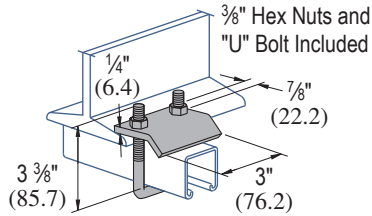


Design Load
500 Lbs

Materials & Finishes: EG

Wt/100 pcs: 72 Lbs

GF2785



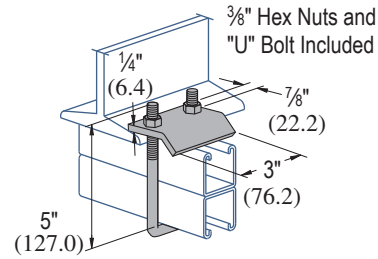
- For use with beams up to 3/4" flange thickness and Channels, CH1000, CH1100, CH2000, CH3000, CH3300, CH3301, CH4000, CH4100.

Design Load Each
1000 Lbs
Use in Pairs Only

Materials & Finishes: EG, SS

Wt/100 pcs: 83 Lbs

GF2786



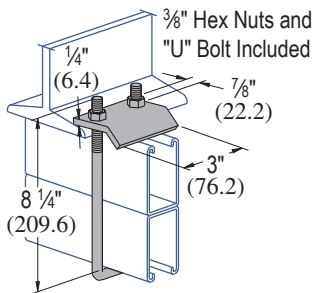
- For use with beams up to 3/4" flange thickness and Channels, CH1001, CH5000, CH5500..

Design Load Each
1000 Lbs
Use in Pairs Only

Materials & Finishes: EG

Wt/100 pcs: 92 Lbs

GF2787



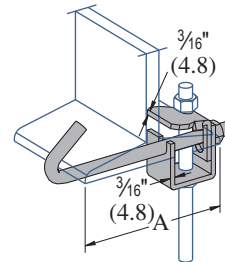
- For use with beams up to 3/4" flange thickness and Channels, CH5001, CH5501.

Design Load Each
1000 Lbs
Use in Pairs Only

Materials & Finishes: EG

Wt/100 pcs: 112 Lbs

GF2824-6



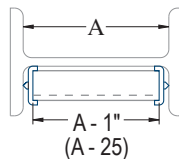
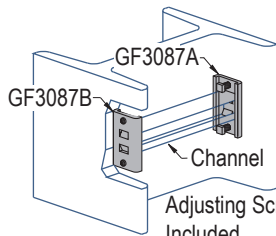
- For use with Beams up to 3/4" flange thickness

Clamp Requires
1/2" Diameter Rod and
2 Hex Nuts (Sold Separately)

"A" In (mm)	Wt/100 pcs Lbs	Design Load Lbs
2 1/2 - 6 63.5 - 152.4	125	500

Materials & Finishes: EG

GF3087 - COLUMN INSERT



- Adjusting Screws Included.
- UBS channel not included.
- Part number GF3087 consists of:
(1) piece GF3087A,
(1) piece GF3087B and
(2) set screws, 3/8" Dia.

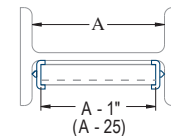
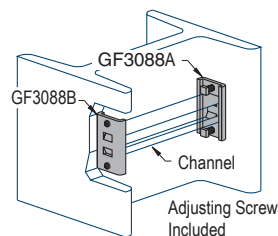
Channel Part Number	Design Pull Out Load Lbs	Design Slip Load Lbs
CH1000	1,000	800
CH1100	700	500

Safety factor of 3.

Materials & Finishes: EG

Wt/100 pcs: 136 Lbs

GF3088 - COLUMN INSERT



- Adjusting Screws Included.
- UBS channel not included.
- Part number GF3088 consists of:
(1) piece GF3088A,
(1) piece GF3088B and
(2) set screws, 3/8" Dia.

Channel Part Number	Design Pull Out Load Lbs	Design Slip Load Lbs
CH3000	1,000	800
CH4100	700	500
CH4000	500	300

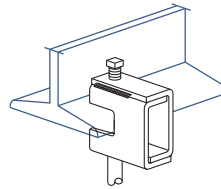
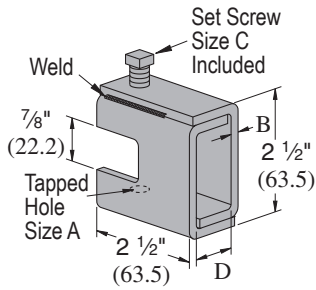
Safety factor of 3.

Materials & Finishes: EG

Wt/100 pcs: 120 Lbs

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GF1649AS & GF1650AS



For beams under 7/8" (22.2) thick flange.

Weld is not continuous it is either 1 1/4" (31.8) - 1 3/4" (44.5) long or 2 spot welds. All welds are on the top and bottom.

Part Number	"A" In	"B" In (mm)	"C" In	"D" In (mm)	Wt/100 pcs Lbs	Design Load Lbs
GF1649AS	3/8 - 16	1/8 3.2	3/8 x 1 1/2	7/8 22.2	67	650
GF1650AS	1/2 - 13	3/16 4.8	1/2 x 1 1/2	1 5/16 23.8	100	1,100

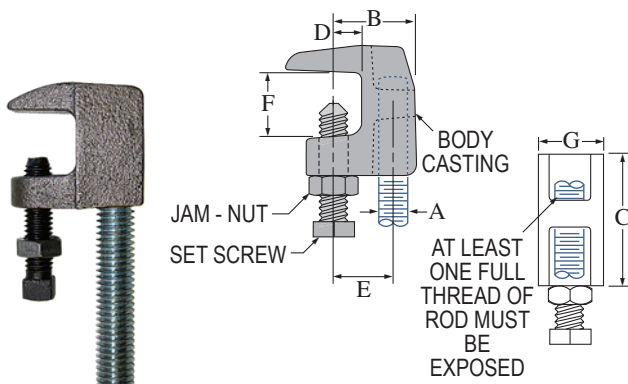
Materials & Finishes: EG

GF416-12 - RETAINING STRAP



Materials & Finishes: EG

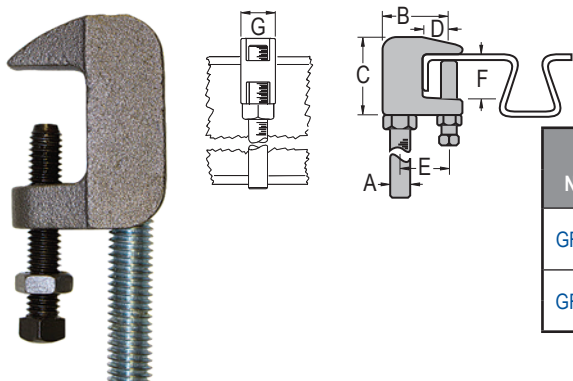
GF406 - TOP BEAM CLAMP



Part Number	Rod Size	Specification Data					Max Pipe Dia. G	Recommended Max. Load (lbs)	Appx. Wt. per 100 (lbs)
		B	C	D	E	F			
GF406 - 3/8	9.5	1 1/4	1 1/2	1/2	7/8	3/4	22.2	350	32
	31.8	38.1	12.7	22.2	19.1				
GF406 - 1/2	12.7	1 1/8	1 1/2	1/2	1	3/4	22.2	470	32
	33.3	38.1	12.7	25.4	19.1				

Materials & Finishes: EG, PL, SS

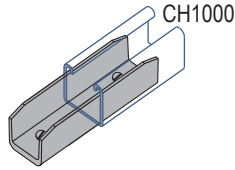
GF407 - WIDE MOUTH TOP BEAM CLAMP



Part Number	Rod Size	Specification Data					Max Pipe Dia. G	Recommended Max. Load (lbs)	Appx. Wt. per 100 (lbs)
		B	C	D	E	F			
GF407 - 3/8	9.5	1 3/8	2	1/2	1	1 1/4	22.2	400	55
	34.9	50.8	12.7	25.4	31.8				
GF407 - 1/2	12.7	1 3/8	2	1/2	1	1 1/4	22.2	500	56
	34.9	50.8	12.7	25.4	31.8				

Materials & Finishes: EG, PL

GF2900 & GF2900T IN CHANNEL JOINERS

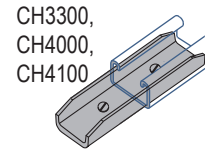


* "T" for use with Slotted Channel
Set Screws Included

Materials & Finishes: PG

Wt/100 pcs: 20 Lbs

GF2904T - IN CHANNEL JOINERS



* "T" for use with Slotted Channel
Set Screws Included

Materials & Finishes: PG

Wt/100 pcs: 12 Lbs

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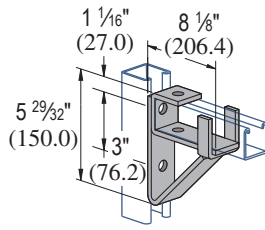
Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

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CB1075 - BRACKET

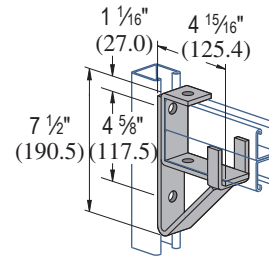


For use with CH1000 or CH1100 Channel
Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

Wt/100 pcs: 229 Lbs

CB1593 - BACK-TO-BACK BRACKET

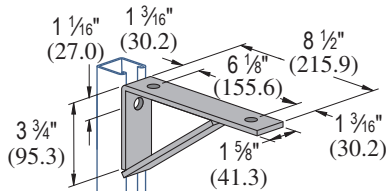


For use with CH1001 or CH5000 Channel
Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

Wt/100 pcs: 272 Lbs

CB1769 - FITTING BRACKET



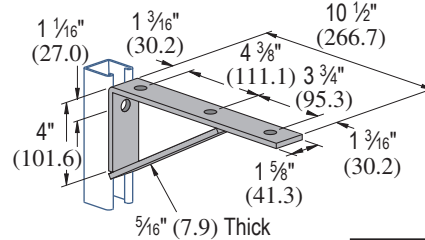
Vertical Channel		Uniform Design Load Lbs
Part No.	Gauge	
CH1000	12	800
CH1100	14	600
CH2000	16	400

Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

Wt/100 pcs: 174 Lbs

CB1771 - FITTING BRACKET



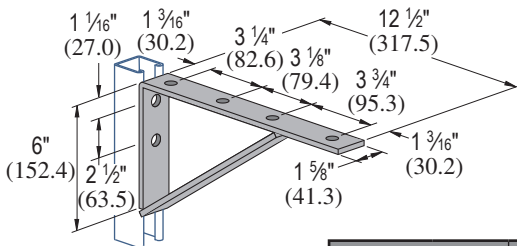
Vertical Channel		Uniform Design Load Lbs
Part No.	Gauge	
CH1000	12	800
CH1100	14	600
CH2000	16	400

Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

Wt/100 pcs: 206 Lbs

CB1773 - FITTING BRACKET



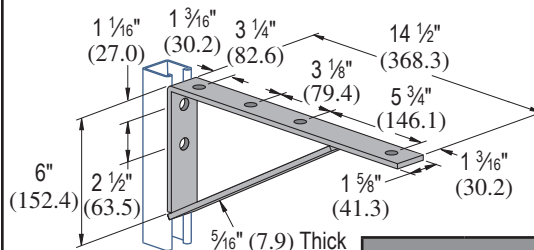
Vertical Channel		Uniform Design Load Lbs
Part No.	Gauge	
CH1000	12	900
CH1100	14	800
CH2000	16	450

Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

Wt/100 pcs: 264 Lbs

CB1775 - FITTING BRACKET



Vertical Channel		Uniform Design Load Lbs
Part No.	Gauge	
CH1000	12	900
CH1100	14	800
CH2000	16	450

Material: 1/4" (6.4) thick steel.

Materials & Finishes: EG

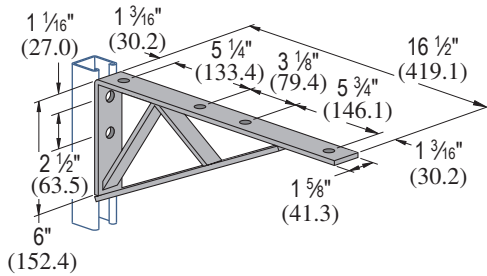
Wt/100 pcs: 295 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 5/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

CB1777 - FITTING BRACKET



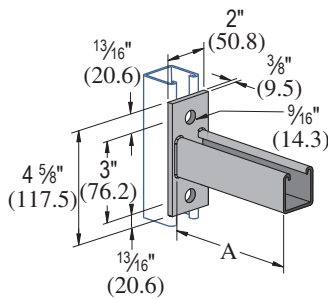
Material: 1/4" (6.4) thick steel.

Vertical Channel		Uniform Design Load Lbs
Part No.	Gauge	
CH1000	12	1,200
CH1100	14	900
CH2000	16	600

Materials & Finishes: EG

Wt/100 pcs: 264 Lbs

CB2944 THRU CB2947 - CANTILEVER BRACKET

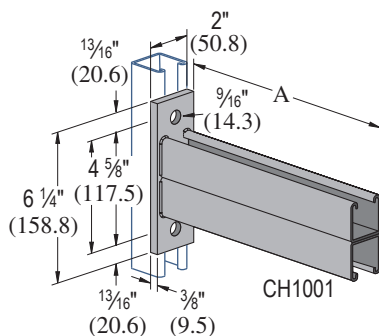


Part Number	"A" In (mm)	Wt/100 pcs Lbs	Uniform Load* Lbs
CB2944	6 152.4	185	1200
CB2945	12 304.8	293	600
CB2946	18 457.2	401	400
CB2947	24 609.6	509	300

Materials & Finishes: HG

Wt/100 pcs: 264 Lbs

CB2542 THRU CB2546 - BACK-TO-BACK CANTILEVER BRACKET



Part Number	"A" In (mm)	Wt/100 pcs Lbs	Vertical Channel		Uniform Design Load Lbs
			Part No.	Gauge	
CB2542	12 304.8	502	CH1000	12	2,000
			CH1100	14	1,400
			CH2000	16	1,000
CB2543	18 457.2	692	CH1000	12	1,300
			CH1100	14	900
			CH2000	16	650
CB2544	24 609.6	882	CH1000	12	1,000
			CH1100	14	700
			CH2000	16	500
CB2545	30 762.0	1,072	CH1000	12	800
			CH1100	14	560
			CH2000	16	400
CB2546	36 914.4	1,262	CH1000	12	650
			CH1100	14	450
			CH2000	16	320

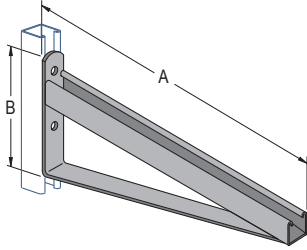
Materials & Finishes: HG

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.

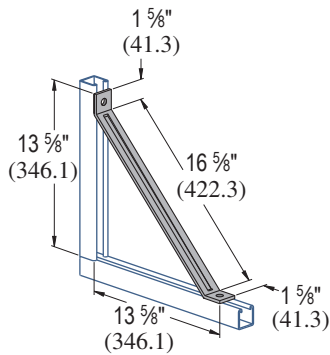
CB2547 THRU CB2551 – CABLE TRAY BRACKET



Part Number	"A" In (mm)	"B" In (mm)	Wt/100 pcs Lbs	Uniform Load* Lbs
CB2547	15 381.0	8 ³ / ₄ 222	420	1,000
CB2548	21 533.4	8 ³ / ₄ 222	628	1,000
CB2549	27 685.8	11 ¹ / ₄ 286	860	900
CB2550	33 838.2	11 ¹ / ₄ 286	1010	900
CB2551	39 990.6	16 406.4	1257	800

Materials & Finishes: HG, SS

GF2452 – KNEE BRACE

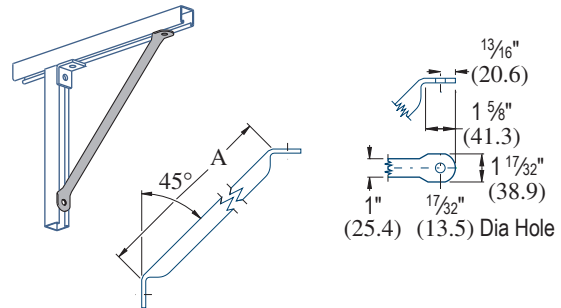


Material: 1/4" (6.4) thick steel.
Design Axial Load 1200 Lbs

Materials & Finishes: EG

Wt/100 pcs: 55 Lbs

GF2458-18 – TUBULAR KNEE BRACE



Design Loads
Compression = 1500 Lbs
Tension = 300 Lbs

Part Number	"A" In (mm)	Wt/100 pcs Lbs
GF2458-18	18 457.2	146

Materials & Finishes: GR

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 13/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

Note : When used for mechanical supports, load capacities of brackets and fittings should be in compliance with the American Standard Code for Pressure Piping.



Channel Nuts68
 Threaded Rods69
 Hardware 69 - 72

MATERIALS & FINISHES

UBS channel nuts are case hardened, assuring positive biting action into the inturned edge of the UBS channel.

Nuts, bolts and washers are available in:

STEEL: ELECTRO-GALVANIZED (EG)

STEEL: HOT-DIPPED GALVANIZED (HG)

STAINLESS STEEL (SS)

For other materials and finishes, contact your UBS representative.

DESIGN BOLT TORQUE

BOLT SIZE	¼"-20	⅜"-18	½"-16	¾"-13	1"-11	1¼"-10
Rec.Torque Ft/Lbs (N•m)	6 (8)	11 (15)	19 (26)	50 (68)	100 (136)	125 (170)
Max Torque Ft/Lbs (N•m)	7 (9)	15 (20)	25 (34)	70 (95)	125 (170)	135 (183)

THREADS

All threads on the nuts and bolts are Unified and American coarse screw threads.

Channel	Channel Nut Size-Thread	Gauge	Allowable Pull-Out Strength Lbs (kN)	Resistance to Slip Lbs (kN)	Torque Ft-Lbs (N•m)
CH1000 CH3000 CH5000 CH5500	7/8" - 9	12	2,500 11.12	1,700 7.56	*125 170
	¾" - 10	12	2,500 11.12	1,700 7.56	*125 170
	5/8" - 11	12	2,500 11.12	1,500 6.67	*100 135
	½" - 13	12	2,000 8.90	1,500 6.67	50 70
	7/16" - 14	12	1,400 6.23	1,000 4.45	35 50
	3/8" - 16	12	1,000 4.45	800 3.56	19 25
	5/16" - 18	12	800 3.56	500 2.22	11 15
	¼" - 20	12	600 2.67	300 1.33	6 8
CH3300	½" - 13	12	1,500 6.67	1,500 6.67	50 70
	3/8" - 16	12	1,000 4.45	800 3.56	19 25
	5/16" - 18	12	800 3.56	500 2.22	11 15
	¼" - 20	12	600 2.67	300 1.33	6 8

Channel	Channel Nut Size-Thread	Gauge	Allowable Pull-Out Strength Lbs (kN)	Resistance to Slip Lbs (kN)	Torque Ft-Lbs (N•m)
CH1100 & CH4100	½" - 13	14	1,400 6.23	1,000 4.45	50 70
	3/8" - 16	14	1,000 4.45	750 3.34	19 25
	5/16" - 18	14	800 3.56	400 1.78	11 15
	¼" - 20	14	600 2.67	300 1.33	6 8
CH2000 & CH4000	½" - 13	16	1,000 4.45	1,000 4.54	50 70
	3/8" - 16	16	1,000 4.45	750 3.34	19 25
	5/16" - 18	16	800 3.56	400 1.78	11 15
	¼" - 20	16	600 2.67	300 1.33	6 8

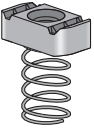
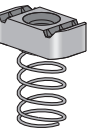
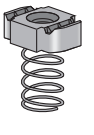



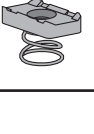
* May require 3/8" or 1/2" thick fitting.





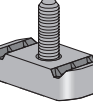
Nut design loads include a minimum safety factor of 3.

Note: Refer to the Channel Nut Selection Chart on the following page for the part number.

CHANNEL NUT WITH SPRING

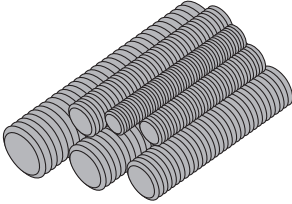
CHANNEL NUT WITHOUT SPRING

Introduction	Channel	Concrete Inserts	General Fittings	Spring Nuts & Hardware	Clamps & Pipe Supports	Seismic	Galvanizing Compound	Rooftop Supports	Erectastep	Sign Posts	Mechanical Tube	Index	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With
														SN1006-1420 EG SN1006-1420 SS	1/4" -20	7
SN1007 EG	5/16" -18	6														
SN1008 EG	3/8" -16	10														
SN1008 SS																
SN1010 EG	1/2" -13	12														
SN1010 SS																
	SN M10 EG	M10	10	CH1000, CH1100, CH3000												
SN M8 EG	M8	10	CH1000, CH1100, CH3000													
	SN1012S EG	5/8" -11	21	CH1000, CH1100, CH3000												
SN1023S EG	3/4" -10	21	CH1000, CH1100, CH3000													
	SN4006-1420 EG SN4006-1420 SS	1/4" -20	7	CH3300, CH4000, CH4100												
SN4007 EG	5/16" -18	6														
SN4008 EG	3/8" -16	9														
SN4010 EG	1/2" -13	8														
	SN4012S EG	5/8" -11	10	CH3300, CH4000, CH4100												
	SN5508 EG	3/8" -16	10	CH5500												
SN5510 EG	1/2" -13	12														
	SN7006-1420	1/4" -20	1	CH7000												

Introduction	Channel	Concrete Inserts	General Fittings	Spring Nuts & Hardware	Clamps & Pipe Supports	Seismic	Galvanizing Compound	Rooftop Supports	Erectastep	Sign Posts	Mechanical Tube	Index	Part Number	Nut Size Thread	Wt/100 pcs Lbs	Use With
														SN1023 EG	3/4" -10	20
	SN3006-1420 EG	1/4" -20	6	Any Channel												
SN3008 EG	3/8" -16	9	Any Channel													
SN3010 EG	1/2" -13	11	Any Channel Except CH3300, CH4000, CH4100													
SN3013 EG	1/2" -13	8	CH3300, CH4000, CH4100													
	SN1016 EG	3/8" -16	17.5	Any Slotted Channel												
	SN1008 T EG	3/8" -16	10	Any Channel												
SN1010 T EG	1/2" -13	12	Any Channel Except CH3300, CH4000, CH4100													
SN4008 T SS	3/8" -16	12	CH1000, CH2000, CH3000, CH5500													
SN4010 T EG	1/2" -13	8	CH3300, CH4000, CH4100													
	SN14 EG	1/4" -20	11	Any Channel												




PLATED THREADED ROD



Size	Wt/100 Ft. Lbs
1/4"	13
3/8"	30
1/2"	53
5/8"	84
3/4"	124
7/8"	170

Materials & Finishes: EG Lengths: 10'

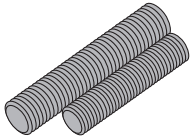
HEX NUT



Size	Wt/100 Ft. Lbs
1/4"	0.6
5/16"	1.2
3/8"	1.6
1/2"	4.8
5/8"	7.3

Materials & Finishes: EG, HG, SS


STAINLESS STEEL THREADED ROD



Size	Wt/100 Ft. Lbs
3/8"	30
1/2"	53
5/8"	84
3/4"	124

Materials & Finishes: SS (304 & 316) Lengths: 12'

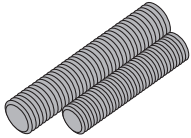
LOCK WASHER



Size	Wt/100 Ft. Lbs
1/4"	0.25
5/16"	0.41
3/8"	0.63
1/2"	1.32
5/8"	2.20

Materials & Finishes: EG, HG, SS

B7 THREADED ROD




Made from ASTM A193 GR B7

Size	Wt/100 Ft. Lbs
3/8"	30
5/8"	84

Materials & Finishes: ZD, SS Lengths: 6'

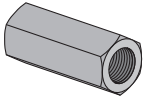
FLAT WASHER



Size	Wt/100 Ft. Lbs
1/4"	0.8
5/16"	1.0
3/8"	1.5
1/2"	3.5
5/8"	7.7

Materials & Finishes: EG, HG, SS

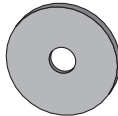
ROD COUPLER



Size	Wt/100 Ft. Lbs
1/4"	13
3/8"	30
1/2"	53
5/8"	84

Materials & Finishes: EG

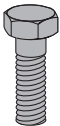
FENDER WASHER



Size	Wt/100 Ft. Lbs
1/4"	1.0
3/8"	3.0
1/2"	6.0
5/8"	9.0

Materials & Finishes: EG, HG, SS

HEX BOLT

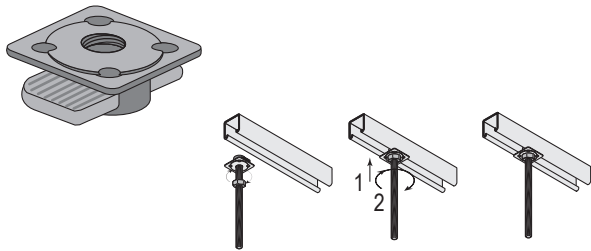


Size	Lengths Available
1/4"	3/4" - 1 1/4"
5/16"	1 1/2" - 5"
3/8"	3/4" - 7"
1/2"	1" - 4"

Materials & Finishes: EG, HG, SS

Introduction
Channel
Concrete Inserts
General Fittings
Spring Nuts & Hardware
Clamps & Pipe Supports
Seismic
Galvanizing Compound
Rooftop Supports
Erectastep
Sign Posts
Mechanical Tube
Index

KWIK WASHER™

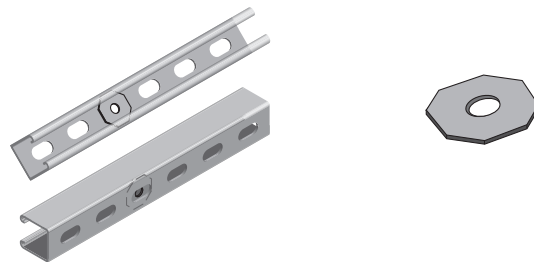


Overhead installation with one hand.

Part No.	Size In (mm)	Load Lbs	Wt/100 pcs Lbs
GFK1062 EG	¼" (6.4)	250	1.2
GFK1063 EG	⅜" (9.5)	610	2.6
GFK1064 EG	½" (12.7)	1,130	9.3

Materials & Finishes: EG

SLOT ADAPTER™



Part No.	Bolt Size	Wt/100 pcs Lbs
GFSA025	¼" (6.4)	1
GFSA037	⅜" (9.5)	1.5

Materials & Finishes: EG



MDS38 & MDS12 - DROP-IN INSERT



Part No.	Size	Drill Bit Diameter	Allowable Tension Load 3000 psi Concrete	Pull-Out 3000 psi Concrete
MDS38	3/8" - 16	1/2"	795 Lbs	4,400 Lbs
MDS12	1/2" - 13	5/8"	1,178 Lbs	7,040 Lbs

* zinc plated steel

Materials & Finishes: EG, SS

WEDGE ANCHOR



Part No.	Size
1/4 Wedge	1/4"
3/8 Wedge	3/8"
1/2 Wedge	1/2"
5/8 Wedge	5/8"
3/4 Wedge	3/4"
7/8 Wedge	7/8"
1 Wedge	1"
1 1/4 Wedge	1 1/4"

* zinc plated steel
Available in Various lengths

Materials & Finishes: EG, SS

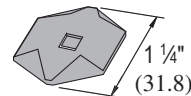
CSM12 - CHANNEL SOCKET



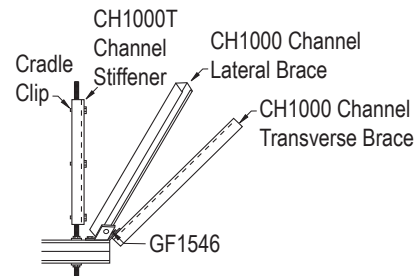
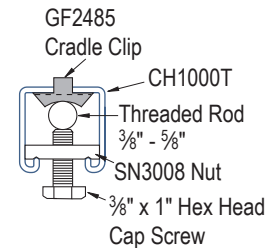
Part Number	Size
CSM12	1/2"

Materials & Finishes: EG

GF2485 - CRADLE CLIP



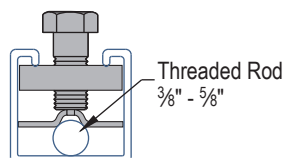
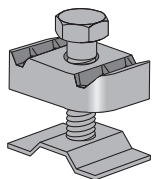
Cradle clip only, order other items separately.



Materials & Finishes: EG

Wt/100 pcs: 3 Lbs

GF3500 - SEISMIC ROD STIFFENER



Materials & Finishes: EG

Wt/100 pcs: 16 Lbs

Notes:

1. Minimum Tensile Stress is 50,000 psi (345MPa)
2. Working Stress is 10,700 psi (73.9 MPa) – Same as for Tension
3. Compression Will Only Occur During a Seismic Event
4. Compression Requires the Use of Rod Stiffeners
5. KL/r = 200 When Rod Stress is at 35%

Refer to a seismic bracing systems catalog for more information.

Rod Size In (mm)	Root Area In ² (mm ²)	Radius of Gyration In (mm)	Design Load Lbs (kN)	Rod Stiffener Clip Spacing (L)			
				Rod Stress @100% 10,700 PSI In (mm)	Rod Stress @75% 8,025 PSI In (mm)	Rod Stress @50% 5,350 PSI In (mm)	Rod Stress @35% 3,745 PSI In (mm)
3/8	0.068	0.074	730	9	11	13	15
9.5	49.5	1.99	3.25	228.6	279.4	330.2	381.0
1/2	0.126	0.100	1,350	12	14	17	21
12.7	72.4	2.40	6.01	304.8	355.6	431.8	533.4
5/8	0.202	0.127	2,160	15	18	22	26
15.9	138.3	3.32	9.61	381.0	457.2	558.8	660.4

QD14 THRU QD12 - Q-DECK HANGER

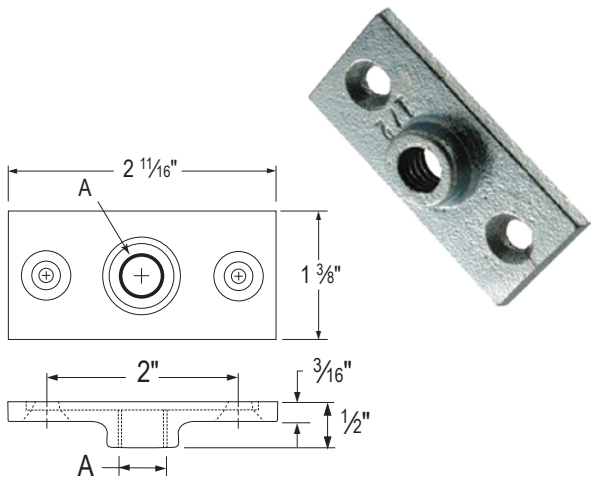
The fastest, most economical way to hang plumbing pipe, light fixtures, sheet metal duct, display fixtures, and more from a Q-Deck. The Q-Deck Hanger eliminates unsightly holes chiseled or punched in the side of the Q-Deck, weakening the deck. With the Q-Deck Hanger, you can keep damage to roof insulation to a minimum.



Part Number	Hole Size	Width	Number of Bottom Side Holes	Lab Pull-Test Top	Lab Pull-Test Bottom	Recommended Load Lbs 5-1 Safety	
						Top	Bottom
QD14	1/4"	3/4" Wide	2	1,570 lbs	1,130 lbs	314	226
QD38	3/8"	3/4" Wide	2	1,570 lbs	1,130 lbs	314	226
QD12	1/2"	1 1/2" Wide	4	-	-	-	-

Materials & Finishes: AL

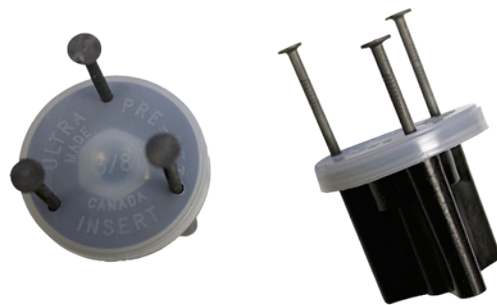
CF14 THRU CF12 - MALLEABLE CEILING FLANGES



Part Number	A Size	Anchor Test (lbs)	Recommended Load 5-1 Safety
CF14	1/4"	2,500	500
CF38	3/8"	3,000	600
CF12	1/2"	3,000	600

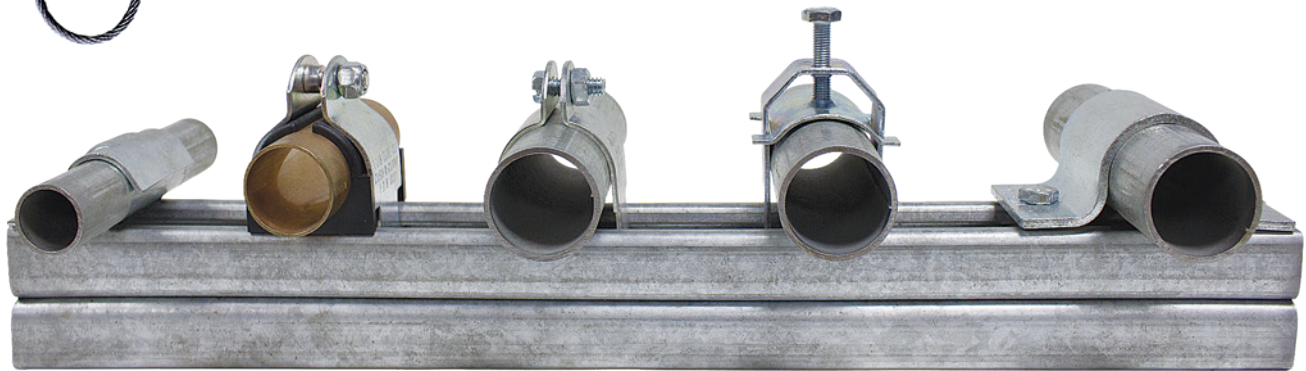
Materials & Finishes: EG

UPI14 THRU UPI12 - PRESET INSERT



Part No.	Size	Lab Pull-Test	Recommended Load 5-1 Safety
UPI14	1/4"	2,800	560 Lbs
UPI38	3/8"	4,300	860 Lbs
UPI12	1/2"	4,800	960 Lbs

Materials & Finishes: Plastic



Pipe/Conduit Clamps	74 - 76
Pipe Straps	77
Isolation Material	77
Cushioned Clamps	78 - 79
Hi-Voltage Clamps	80 - 81
Riser Clamps.....	82
Pipe Hangers.....	83 - 84
Spring Hangers	85
Spring Mounts	86

MATERIALS & FINISHES

Consult UBS for ordering information.
 Pipe supports are available in:
ELECTRO-GALVANIZED (EG)
HOT-DIPPED GALVANIZED (HG),
STAINLESS STEEL (SS)

DIMENSIONS

Imperial dimensions are illustrated in inches. Metric dimensions are shown in parenthesis or as noted. Unless noted, all metric dimensions are in millimeters and rounded to one decimal place.

DESIGN LOAD

Design load data, where shown, is based on the ultimate strength of the connection with a safety factor of 5.0, unless otherwise noted.

Introduction

Channel

Concrete Inserts

General Fittings

Spring Nuts & Hardware

Clamps & Pipe Supports

Seismic

Galvanizing Compound

Roofing Supports

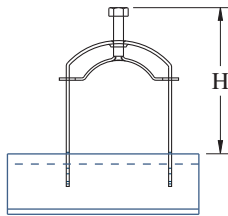
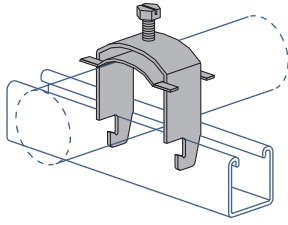
Erectastep

Sign Posts

Mechanical Tube

Index

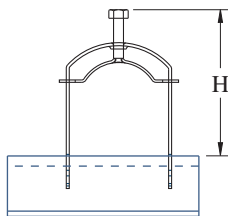
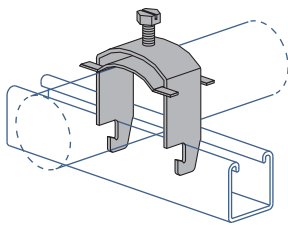
SC025 THRU SC400 – SADDLE CLAMPS - ONE PIECE



Part No.	Nominal Trade Size In (mm)	Trade Size O.D.		Height Above Channel "H"	
		Min In (mm)	Max In (mm)	Min In (mm)	Max In (mm)
SC025	1/4	0.375	0.5	1 1/4	2
	6.4	9.5	13.7	44.5	50.8
SC037	3/8	0.5	0.7	1 1/2	2 1/2
	9.5	12.7	17.1	47.6	54.0
SC050	1/2	0.63	0.84	2	2 1/4
	12.7	15.9	21.3	50.8	57.2
SC075	3/4	0.88	1.05	2 1/4	2 1/2
	19.1	22.2	26.7	57.2	63.5
SC100	1	1.13	1.32	2 3/4	2 3/4
	25.4	28.6	33.4	60.3	69.9
SC125	1 1/4	1.38	1.66	2 3/4	3 1/2
	31.8	34.9	42.2	69.9	79.4
SC150	1 1/2	1.63	1.90	3	3 3/4
	38.1	41.3	48.3	76.2	85.7
SC200	2	2.13	2.38	3 3/4	3 3/4
	50.8	54.0	60.3	85.7	98.4
SC250	2 1/2	2.63	2.88	4 1/4	4 3/4
	63.5	66.7	73.0	108.0	117.5
SC300	3	3.13	3.50	4 7/8	5 3/8
	76.2	79.4	88.9	123.8	136.5
SC350	3 1/2	3.63	4.00	5 1/4	5 3/4
	88.9	92.1	101.6	133.4	149.2
SC400	4	4.13	4.50	5 3/4	6 3/8
	101.6	104.8	114.3	146.1	161.9

Materials & Finishes: EG

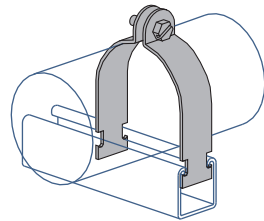
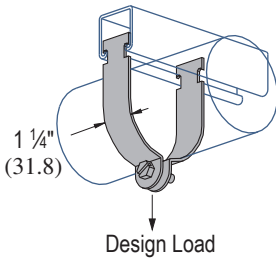
SC055 SS THRU SC475 SS – SADDLE CLAMPS - ONE PIECE STAINLESS



Part No.	O.D. Range In (mm)	Gauge	Wt/100 pcs Lbs
SC055 SS	0.050 - 0.550 1.3 - 14.0	16 GA.	8
SC081 SS	0.310 - 0.810 7.9 - 20.6	16 GA.	9
SC110 SS	0.810 - 1.100 20.6 - 28.0	16 GA.	12
SC135 SS	0.850 - 1.350 21.6 - 34.3	14 GA.	14
SC175 SS	1.250 - 1.750 31.8 - 44.5	14 GA.	21
SC205 SS	1.750 - 2.050 44.5 - 52.1	12 GA.	30
SC250 SS	2.000 - 2.500 50.8 - 63.5	12 GA.	35
SC300 SS	2.500 - 3.000 63.5 - 76.2	12 GA.	39
SC325 SS	2.750 - 3.250 69.9 - 82.6	12 GA.	41
SC375 SS	3.250 - 3.750 82.6 - 95.3	12 GA.	47
SC425 SS	3.750 - 4.250 95.3 - 108.0	12 GA.	54
SC475 SS	4.250 - 4.750 108.0 - 120.7	12 GA.	58

Materials & Finishes: SS

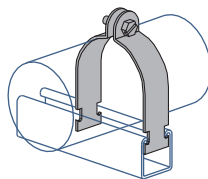
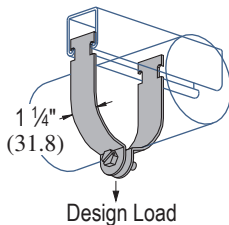
PC1109 THRU PC1126 – 2 PIECE PIPE CLAMPS FOR RIGID STEEL CONDUIT



Part No.	Conduit Size In	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC1109	3/8	0.675 17.1	16 1.5	10	400
PC1111	1/2	0.840 21.3	16 1.5	11	400
PC1112	3/4	1.050 26.7	14 1.9	15	600
PC1113	1	1.315 33.4	14 1.9	17	600
PC1114	1 1/4	1.660 42.2	14 1.9	19	600
PC1115	1 1/2	1.900 48.3	12 2.7	29	800
PC1117	2	2.375 60.3	12 2.7	34	800
PC1118	2 1/2	2.875 73.0	12 2.7	40	800
PC1119	3	3.500 88.9	12 2.7	47	800
PC1120	3 1/2	4.000 101.6	11 3.0	62	1,000
PC1121	4	4.500 114.3	11 3.0	67	1,000
PC1123	5	5.563 141.3	11 3.0	80	1,000
PC1124	6	6.625 168.3	10 3.4	102	1,000
PC1126	8	8.625 219.1	10 3.4	130	1,000

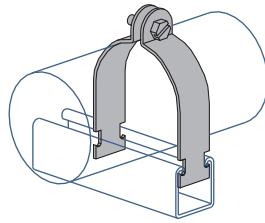
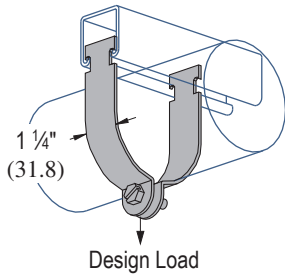
Materials & Finishes: AL, EG, SS

PC1425 THRU PC1431 – 2 PIECE PIPE CLAMPS FOR THIN WALL CONDUIT (EMT)



Part No.	Conduit Size In (mm)	O.D. Size In (mm)	Thickness Gauge (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC1425	3/8 9.5	0.577 14.7	16 1.5	9	400
PC1426	1/2 12.7	0.706 17.9	16 1.5	11	400
PC1427	3/4 19.1	0.922 23.4	16 1.5	12	400
PC1428	1 25.4	1.163 29.5	14 1.9	15	600
PC1429	1 1/4 31.8	1.510 38.4	14 1.9	18	600
PC1430	1 1/2 38.1	1.740 44.2	12 2.7	29	800
PC1431	2 50.8	2.197 55.8	12 2.7	33	800

Materials & Finishes: EG



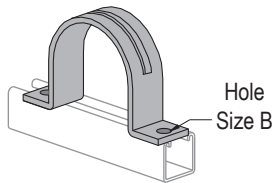
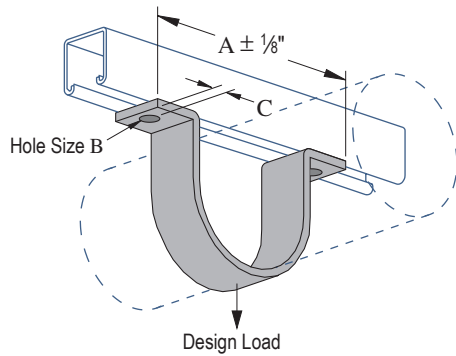
PC2024 - PC2029 16 ga.
 PC2030 - PC2035 14 ga.
 PC2037 - PC2052 12 ga.
 PC2053 - PC2066 11 ga.
 PC2067 - PC2070-84 10 ga.

Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC2024	1/4" 6.4	8	400
PC2025	3/8" 9.5	8	
PC2026	1/2" 12.7	9	
PC2027	5/8" 15.9	10	
PC2028	3/4" 19.1	11	
PC2029	7/8" 22.2	12	
PC2030	1" 25.4	14	
PC2031	1 1/8" 28.6	15	
PC2032	1 1/4" 31.8	16	
PC2033	1 3/8" 34.9	17	
PC2034	1 1/2" 38.1	18	
PC2035	1 5/8" 41.3	19	800
PC1430	1 1/2" 38.1	29	
PC2037	1 7/8" 47.6	28	
PC2038	2" 50.8	31	
PC2039	2 1/8" 54.0	32	
PC2040	2 1/4" 57.2	33	
PC1117	2 3/8" 60.3	34	
PC2042	2 1/2" 63.5	35	
PC2043	2 5/8" 66.7	37	
PC2044	2 3/4" 69.9	38	
PC1118	2 7/8" 73.0	40	

Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC2046	3" 76.2	41	800 (cont.)
PC2047	3 1/8" 79.4	43	
PC2048	3 1/4" 82.6	45	
PC2049	3 3/8" 85.7	46	
PC1119	3 1/2" 88.9	47	
PC2051	3 5/8" 92.1	56	1,000
PC2052	3 3/4" 95.3	58	
PC2053	3 7/8" 98.4	60	
PC1120	4 1/2" 101.6	62	
PC2055	4 1/8" 104.8	62	
PC2056	4 1/4" 108.0	64	
PC2057	4 3/8" 111.1	66	
PC1121	4 1/2" 114.3	67	
PC2059	4 5/8" 117.5	70	
PC2060	4 3/4" 120.7	72	
PC2061	4 7/8" 123.8	73	
PC2062	5" 127.0	74	
PC2063	5 1/8" 130.2	76	
PC2064	5 1/4" 133.4	77	
PC2065	5 3/8" 136.5	78	
PC2066	5 1/2" 140.0	79	
PC2067	5 5/8" 142.9	88	
PC2068	5 3/4" 146.1	90	

Part Number	O.D. Size In (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC2069	5 7/8" 149.2	92	1000 (cont.)
PC2070	6" 152.4	94	
PC2070-61	6 1/8" 155.6	96	
PC2070-62	6 1/4" 158.8	98	
PC2070-63	6 3/8" 161.9	99	
PC2070-64	6 1/2" 165.1	100	
PC1124	6 5/8" 168.3	102	
PC2070-66	6 3/4" 171.5	104	
PC2070-67	6 7/8" 174.6	106	
PC2070-70	7" 177.8	108	
PC2070-71	7 1/8" 181.0	110	1000 (cont.)
PC2070-72	7 1/4" 184.2	112	
PC2070-73	7 3/8" 187.3	114	
PC2070-74	7 1/2" 190.5	116	
PC2070-75	7 5/8" 193.7	117	
PC2070-76	7 3/4" 196.9	119	
PC2070-77	7 7/8" 200.0	121	
PC2070-80	8" 203.2	123	
PC2070-81	8 1/8" 206.4	125	
PC2070-82	8 1/4" 209.6	126	
PC2070-83	8 3/8" 212.7	128	
PC2070-84	8 1/2" 215.9	129	
PC1126	8 5/8" 219.1	130	

PC2558-05 THRU PC2558-60 – SINGLE PIECE PIPE STRAP

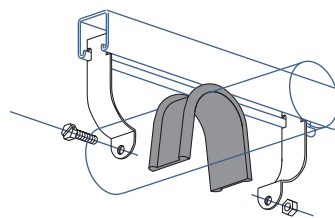
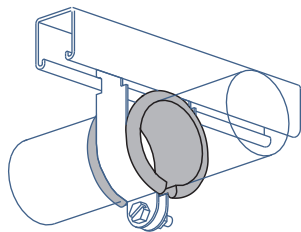


Part Number	Nominal Pipe Size In	A In (mm)	"B" In (mm)	C In (mm)	Thick-ness In (mm)	Wt/100 pcs Lbs	Design Load Lbs
PC2558-05	1/2	2 7/8 73.0	3/8 7.1	7/16 11.1	1/8 3.2	23	500
PC2558-07	3/4	3 1/8 79.4					
PC2558-10	1	3 3/8 85.7					
PC2558-12	1 1/4	3 3/4 95.3					
PC2558-15	1 1/2	3 7/8 98.4					
PC2558-20	2	5 3/4 146.1	7/16 11.1	1 1/16 17.5	1/4 6.4	94	1,000
PC2558-25	2 1/2	6 1/4 158.8					
PC2558-30	3	6 7/8 174.6					
PC2558-35	3 1/2	7 3/8 187.3					
PC2558-40	4	7 7/8 200.0					
PC2558-50	5	9 228.6					
PC2558-60	6	10 254.0					

Hardware sold separately.

Materials & Finishes: EG

GF2600 – ISOLATION MATERIAL

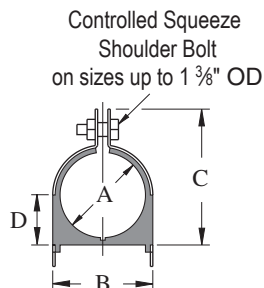
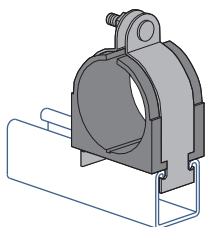


FEATURES

- 25 feet per carton.
- Shock absorption
- Protection from corrosion and abrasion
- Allowance for expansion & contraction in pipe diameter
- Sound and vibration isolation
- Stability in use from - 50°F to 350°F (-47°C 177°C)
- Flexible elastomer material
- Will not support combustion

THE ISO CLAMP

CCT025 THRU CCT412 – TUBE CUSHIONED CLAMPS



Other sizes available by request

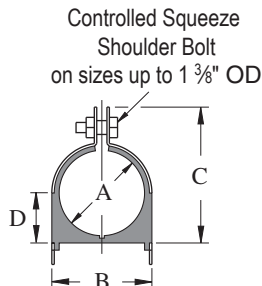
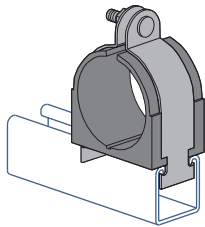
- Cushion material is a thermoplastic elastomer rated from -65°F to 248°F (-53°C to 120°C).
- Resist most fuels, oils, gases, greases, solvents, mineral acids and other harsh materials.
- Allow fluid conductors to be added or removed from installations without disturbing adjacent lines.
- Permit various size lines to be mixed to suit installation.
- Available in 304 and 316 stainless steel. Aluminum offered for special orders.

Part Number	Copper & Steel Tube O. D. Size	Copper Water Pipe (Nominal)	Dimensions				Wt/100 pcs Lbs
			"A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	
CCT025	¼"	-	0.25 6.4	0.62 15.7	0.98 24.9	0.27 6.9	10
CCT037	⅜"	¼"	0.37 9.4	0.82 20.8	1.13 28.7	0.33 8.4	11
CCT050	½"	⅜"	0.5 12.7	0.94 23.9	1.34 34.0	0.4 10.2	13
CCT062	⅝"	½"	0.62 15.7	1.06 26.9	1.54 39.1	0.46 11.7	14
CCT075	¾"	⅝"	0.75 19.1	1.2 30.5	1.68 42.7	0.52 13.2	14
CCT087	⅞"	¾"	0.87 22.1	1.31 33.3	1.82 46.2	0.58 14.7	15
CCT100	1"	-	1.00 25.4	1.44 36.6	1.95 49.6	0.65 16.6	17
CCT112	1 ⅛"	1"	1.12 28.4	1.57 39.9	2.08 52.8	0.7 17.8	18
CCT125	1 ¼"	-	1.25 31.8	1.70 43.2	2.21 56.1	0.77 19.6	18
CCT137	1 ⅜"	1 ¼"	1.37 34.8	1.82 46.2	2.34 59.4	0.83 21.1	20
CCT150	1 ½"	-	1.50 38.1	1.95 49.6	2.47 62.7	0.90 22.9	33
CCT162	1 ⅝"	1 ½"	1.62 41.1	2.07 52.6	2.6 66.0	0.96 24.4	35
CCT175	1 ¾"	-	1.75 44.5	2.2 55.9	2.73 69.3	1.02 25.9	37
CCT187	1 ⅞"	-	1.9 48.3	2.35 59.7	2.86 72.6	1.09 27.7	39
CCT200	2"	-	2.00 50.8	2.45 62.2	3.04 77.2	1.15 29.2	41
CCT212	2 ⅛"	2"	2.12 53.8	2.57 65.3	3.23 82.0	1.27 32.3	46
CCT237	2 ⅜"	-	2.37 60.2	2.82 71.6	3.67 93.2	1.41 35.8	47
CCT250	2 ½"	-	2.5 63.5	2.94 74.7	3.79 96.3	1.46 37.1	49
CCT262	2 ⅝"	2 ½"	2.62 66.5	3.1 78.0	3.92 99.6	1.53 38.9	51
CCT300	3"	-	3.00 76.2	3.57 90.7	4.42 112.3	1.78 45.2	57
CCT312	3 ⅛"	3"	3.12 79.2	3.6 90.7	4.42 112.3	1.78 45.2	60
CCT362	3 ⅝"	3 ½"	3.62 91.9	4.2 106.7	4.99 126.7	2.03 51.6	70
CCT412	4 ⅛"	4"	4.12 104.6	4.6 116.1	5.54 140.7	2.34 59.4	94

Materials & Finishes: EG, SS

THE ISO CLAMP

CCP025 THRU CCP600 – PIPE CUSHIONED CLAMPS



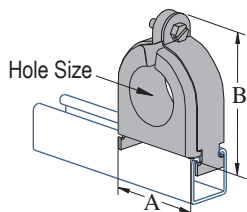
Other sizes available by request

- Cushion material is a thermoplastic elastomer rated from -65°F to 248°F (-53°C to 120°C).
- Resist most fuels, oils, gases, greases, solvents, mineral acids and other harsh materials.
- Allow fluid conductors to be added or removed from installations without disturbing adjacent lines.
- Permit various size lines to be mixed to suit installation.
- Available in 304 and 316 stainless steel. Aluminum offered for special orders.

Part Number	Nominal Pipe Size In	Dimensions				Wt/100 pcs Lbs
		"A" In(mm)	"B" In(mm)	"C" In(mm)	"D" In(mm)	
CCP025	¼"	0.54 13.7	0.98 24.9	1.34 34.0	0.43 10.9	13
CCP037	⅜"	0.67 17.0	1.13 28.7	1.54 39.1	0.49 12.4	14
CCP050	½"	0.84 21.3	1.29 32.8	1.82 46.2	0.58 14.7	15
CCP075	¾"	1.05 26.7	1.50 38.1	1.95 49.5	0.70 17.8	17
CCP100	1"	1.31 33.3	1.76 44.7	2.34 59.4	0.81 20.6	19
CCP125	1¼"	1.66 42.2	2.17 55.1	2.73 69.3	0.99 25.1	35
CCP150	1½"	1.90 48.3	2.35 59.7	2.86 72.6	1.09 27.7	39
CCP200	2"	2.37 60.2	2.82 71.6	3.67 93.2	1.41 35.8	49
CCP250	2½"	2.87 72.9	3.32 84.3	4.17 105.9	1.66 42.2	57
CCP300	3"	3.50 88.9	3.95 100.3	4.79 121.7	1.97 50.0	55
CCP400	4"	4.50 114.3	4.95 125.7	5.92 150.4	2.53 64.3	110
CCP600	6"	6.62 168.1	7.07 179.6	8.23 209.0	3.59 91.2	140

Materials & Finishes: EG, SS

P1787A THRU P1795B – HI-VOLTAGE CLAMP™



Patents Pending

Strap Material: Electro-galvanized Steel (EG) or Stainless Steel (SS)

Use With: All 1½" channel

Replaces Porcelain and Maple Cable Clamp.

- Non-Breakable TPE Material.
- Includes Silicone Bolt and Nut.
- U.V. Resistant.
- U.L. Listed.
- Optional Stainless Steel Clamps.
- Tapered Flange to Protect Cable.
- Dielectric Strength 640 Volts Per Mil.
- One Piece Insulator.
- Replaces Porcelain & Maple Cable Clamp.
- For use in accordance with National Electrical Code ANSI/NFPA 70.
- Includes Pipe Strap.
- Temperature Rating -50°F to +275°F (-45°C to +135°C)

Part Number	Hole Size In (mm)	"A" In (mm)	"R" In (mm)	"B" In (mm)	Wt/100 pcs Lbs
P1787A	3/8 9.5	1.12 28.5	0.56 14.2	1.82 46.2	25
P1787B	1/2 12.7				
P1787C	5/8 15.9				
P1788	3/4 19.1	1.62 41.1	0.81 20.6	2.34 59.4	37
P1788A	7/8 22.2				
P1788B	1 25.4				
P1788C	1-1/8 28.6	2.12 53.8	1.06 26.9	2.86 72.6	58
P1789	1-1/4 31.8				
P1789A	1-3/8 34.9				
P1789B	1-1/2 38.1	2.62 66.5	1.31 33.2	3.50 88.9	76
P1789C	1-5/8 41.3				
P1790	1-3/4 44.5				
P1790A	1-7/8 47.6	3.12 79.2	1.56 39.6	4.05 102.9	90
P1790B	2 50.8				
P1790C	2-1/8 54.0				
P1791	2-1/4 57.2	3.12 79.2	1.56 39.6	4.05 102.9	90
P1791A	2-3/8 60.3				
P1791B	2-1/2 63.5				
P1791C	2-5/8 66.7				

Part Number	Hole Size In (mm)	"A" In (mm)	"R" In (mm)	"B" In (mm)	Wt/100 pcs Lbs
P1792	2-3/4 69.9	3.62 91.9	1.81 46.0	4.75 120.7	109
P1792A	2-7/8 73.0				
P1792B	3 76.2				
P1792C	3-1/8 79.4	4.12 104.6	2.06 52.3	5.125 130.2	130
P1793	3-1/4 82.6				
P1793A	3-3/8 85.7				
P1793B	3-1/2 88.9	4.62 117.3	2.31 58.7	5.54 140.7	160
P1793C	3-5/8 92.1				
P1794	3-3/4 95.3				
P1794A	3-7/8 98.4	5.00 127.0	2.50 63.5	5.92 150.4	160
P1794B	4 101.6				
P1794C	4-1/8 104.8				
P1795	4-1/4 108.0	5.00 127.0	2.50 63.5	5.92 150.4	160
P1795A	4-3/8 111.1				
P1795B	4-1/2 114.3				

Materials & Finishes: EG

ELLIS - EMPEROR STAINLESS STEEL CABLE CLEATS



Single Cable Application



Trefoil Cable Application

The Emperor range offers the ultimate protection against the harshest conditions, and its unique design means it can be quickly installed. Manufactured in Type 316L stainless steel, Emperor cleats are available in multiple sizes with range-taking capability, to suit trefoil or single cables.

Materials & Finishes: SS (316L)

ELLIS - VULCAN STAINLESS STEEL CABLE CLEATS



Trefoil & Single Cable Application



Quad Cable Application



Our Vulcan+ cleats have a unique compact design so they can be easily installed, even when space is limited. Vulcan+ cleats are available in multiple sizes with range-taking capability, to suit trefoil, single, quad or bundled cables.

Materials & Finishes: SS (316L)

ELLIS - 2 HOLE CABLE CLAMP

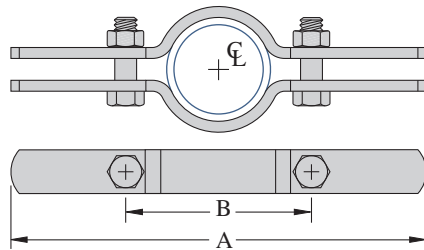


Manufactured as standard in Black Polypropylene (B) or Black Flame Retardant V0 Zero Halogen Phosphorus-Free UV Stabilised Nylon (LSF) or to special order in a London Underground Approved Material (LUL).

Used to fix power cables in indoor and outdoor applications.

Materials & Finishes: Black Polypropylene (B) or Black Flame Retardant V0 Zero Halogen Phosphorus-Free UV Stabilised Nylon (LSF) or to special order in a London Underground Approved Material (LUL)

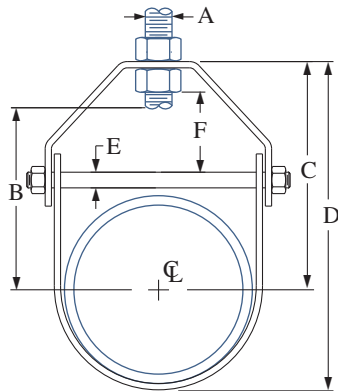
RC050 THRU RC1200 – RISER CLAMP



Part No.	Iron Pipe Size	Specification Data				Rec. Max. Load (lbs)	App'x Wt. Per 100 (lbs)
		A	B	Bolt Diameter	Material		
RC050	1/2	8 ⁵ / ₈ 219.1	2 ¹ / ₈ 54.0	3/8 9.5	8 ga x 1	220	88
RC075	3/4	8 ¹³ / ₁₆ 223.8	2 ⁵ / ₁₆ 58.7	3/8 9.5	8 ga x 1	220	92
RC100	1	9 ¹ / ₁₆ 230.2	2 ⁵ / ₈ 66.7	3/8 9.5	8 ga x 1	220	94
RC125	1 1/4	9 ⁷ / ₁₆ 239.7	2 ¹⁵ / ₁₆ 74.6	3/8 9.5	8 ga x 1	250	100
RC150	1 1/2	10 254.0	3 ⁷ / ₁₆ 87.3	3/8 9.5	8 ga x 1	250	104
RC200	2	10 ⁹ / ₁₆ 268.3	4 101.6	3/8 9.5	8 ga x 1	300	114
RC250	2 1/2	11 ¹ / ₈ 282.6	4 ⁹ / ₁₆ 115.9	3/8 9.5	3 ga x 1	400	160
RC300	3	11 ¹³ / ₁₆ 300.0	5 ¹ / ₄ 133.4	3/8 9.5	3 ga x 1	500	170
RC350	3 1/2	13 330.2	6 152.4	1/2 12.7	3 ga x 1	600	206
RC400	4	13 ⁵ / ₈ 295.3	6 ⁵ / ₈ 168.3	1/2 12.7	3 ga x 1	750	220
RC500	5	14 ¹ / ₂ 358.8	7 ⁵ / ₈ 163.7	1/2 12.7	3 ga x 1 1/2	1500	340
RC600	6	15 ⁵ / ₈ 390.5	8 ¹ / ₂ 225.4	1/2 12.7	3 ga x 1 1/2	1600	372
RC800	8	18 ⁵ / ₈ 473.1	12 304.8	5/8 15.9	3/8 x 1 1/2	2500	722
RC1000	10	21 533.4	14 1/2 368.3	5/8 15.9	3/8 x 2	2500	1094
RC1200	12	22 3/4 577.8	17 431.8	5/8 15.9	1/2 x 2	2700	1610

Materials & Finishes: EG

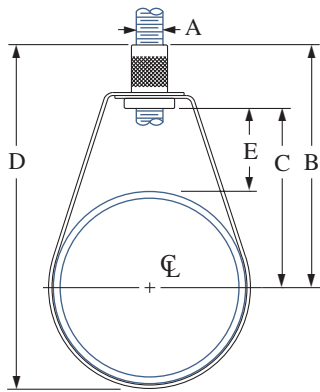
CL050 THRU CL1200 - CLEVIS HANGER



Part No.	Iron Pipe Size	Specification Data								Rec. Max. Load (lbs)	App'x Wt. Per 100 (lbs)
		A	B	C	D	E	F	Upper	Lower		
CL050	1/2	3/8 9.5	1 1/8 28.6	1 1/16 42.9	2 1/16 52.4	1/4 6.4	7/16 11.1	13 ga x 7/8	13 ga x 7/8	610	18
CL075	3/4	3/8 9.5	1 1/8 28.6	1 1/16 42.9	2 3/16 65.1	1/4 6.4	7/16 11.1	13 ga x 7/8	13 ga x 7/8	610	18
CL100	1	3/8 9.5	1 5/16 33.3	2 1/16 52.4	2 1/16 68.3	1/4 6.4	5/8 15.9	13 ga x 7/8	13 ga x 7/8	610	22
CL125	1 1/4	3/8 9.5	1 5/8 41.3	2 1/2 63.5	3 3/16 81.0	1/4 6.4	7/8 22.2	13 ga x 7/8	13 ga x 7/8	610	26
CL150	1 1/2	3/8 9.5	1 7/8 47.6	2 7/8 73.0	3 11/16 93.7	1/4 6.4	1 1/16 27.0	13 ga x 7/8	12 ga x 7/8	610	34
CL200	2	3/8 9.5	2 1/4 57.2	3 15/16 100.0	4 7/16 112.7	1/4 6.4	1 1/4 31.8	13 ga x 7/8	12 ga x 7/8	610	38
CL250	2 1/2	1/2 12.7	2 7/8 73.0	4 1/2 114.3	5 7/8 149.2	5/16 7.9	1 5/16 33.3	9 ga x 1 3/16	10 ga x 1 3/16	1130	86
CL300	3	1/2 12.7	3 15/16 100.0	4 3/4 120.7	6 1/2 165.1	5/16 7.9	1 3/4 44.5	9 ga x 1 3/16	10 ga x 1 3/16	1130	96
CL350	3 1/2	1/2 12.7	4 1/32 102.4	5 7/8 149.2	7 15/16 201.6	5/16 7.9	2 9/16 65.1	8 ga x 1 3/16	10 ga x 1 3/16	1130	114
CL400	4	5/8 15.9	4 1/8 104.8	5 5/16 150.8	8 3/16 207.9	3/8 9.5	2 1/8 54.0	8 ga x 1 3/16	10 ga x 1 3/16	1430	126
CL500	5	5/8 15.9	4 3/16 106.4	5 11/16 144.5	8 7/16 214.3	1/2 12.7	1 7/16 36.5	4 ga x 1 1/4	8 ga x 1 1/4	1430	204
CL600	6	3/4 19.1	5 1/16 128.6	6 13/16 173.0	10 1/8 257.2	1/2 12.7	1 3/4 44.5	3 ga x 1 1/2	8 ga x 1 1/2	1940	280
CL800	8	3/4 19.1	6 3/16 157.2	8 1/16 204.8	12 7/16 315.9	5/8 15.9	1 7/8 47.6	3 ga x 1 3/4	8 ga x 1 3/4	2000	446
CL1000	10	7/8 22.2	7 3/4 196.9	10 254.0	15 7/16 392.1	3/4 19.1	2 1/4 57.2	3/8 x 1 1/4	3 ga x 1 3/4	3600	806
CL1200	12	7/8 22.2	9 1/32 229.6	11 1/16 293.7	18 457.2	3/4 19.1	2 13/16 71.4	3/8 x 2	8 ga x 2	3800	1034

Materials & Finishes: EG

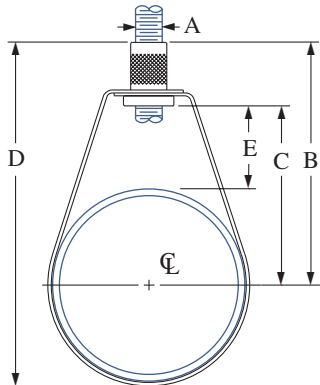
RH050 THRU RH800 – RING HANGER



Part No.	Iron Pipe Size	Specification Data					Rec. Max. Load (lbs)	UL - ULC Test Load	App'x Wt. Per 100 (lbs)
		A	B	C	D	E			
RH050	½	¾ 9.5	2 ¹⁵ / ₁₆ 74.6	1 ⁷ / ₈ 47.6	3 ³ / ₈ 85.7	1 ⁷ / ₁₆ 36.5	400	750	9
RH075	¾	¾ 9.5	2 ⁷ / ₈ 73.0	1 ⁷ / ₈ 47.6	3 ³ / ₈ 85.7	1 ¹¹ / ₃₂ 42.9	400	750	9
RH100	1	¾ 9.5	2 ⁷ / ₈ 73.0	1 ⁷ / ₈ 47.6	3 ¹ / ₂ 88.9	1 ¹⁵ / ₃₂ 309.6	400	750	9
RH125	1 ¼	¾ 9.5	3 ¹ / ₁₆ 77.8	1 ¹⁵ / ₁₆ 49.2	3 ⁷ / ₈ 98.4	1 ¹ / ₈ 28.6	400	750	10
RH150	1 ½	¾ 9.5	3 ³ / ₁₆ 81.0	2 ¹ / ₈ 54.0	4 ¹ / ₈ 104.8	1 ³ / ₁₆ 30.2	400	750	11
RH200	2	¾ 9.5	3 ⁷ / ₁₆ 87.3	2 ⁷ / ₁₆ 61.9	4 ⁵ / ₈ 117.5	1 ¹ / ₄ 31.8	400	750	12
RH250	2 ½	¾ 9.5	3 ¹³ / ₁₆ 96.8	2 ³ / ₄ 69.9	5 ¹ / ₄ 133.4	1 ¹ / ₈ 34.9	600	850	28
RH300	3	¾ 9.5	4 101.6	3 76.2	5 ³ / ₄ 146.1	1 ¹ / ₄ 31.8	600	1050	30
RH400	4	¾ 9.5	4 ³ / ₄ 120.7	3 ³ / ₄ 95.3	7 177.8	1 ¹ / ₂ 38.1	1000	1500	37
RH500	5	1 ¹ / ₂ 12.7	6 152.4	4 ³ / ₄ 120.7	8 ³ / ₄ 222.3	1 ¹⁵ / ₁₆ 49.2	1000	2000	83
RH600	6	1 ¹ / ₂ 12.7	6 ⁹ / ₁₆ 135.9	5 ¹ / ₄ 133.4	9 ³ / ₈ 250.8	1 ¹⁵ / ₁₆ 49.2	1250	2650	95
RH800	8	1 ¹ / ₂ 12.7	7 ¹³ / ₁₆ 198.4	6 ⁵ / ₈ 168.3	12 ¹ / ₈ 307.9	2 ⁵ / ₁₆ 58.7	1250	4050	118

Materials & Finishes: EG

RH050CO THRU RH400CO – RING HANGER, BLACK



Part No.	Copper Pipe Size	Also Accommodates IPS Size	Specification Data					Rec. Max. Load (lbs)	App'x Wt. Per 100 (lbs)
			A	B	C	D	E		
RH050CO	½-¾	½	¾ 9.5	2 ¹³ / ₁₆ 71.4	1 ¹⁵ / ₁₆ 49.2	3 ³ / ₄ 82.6	1 ¹⁵ / ₁₆ 33.3	400	9
RH100CO	1	¾	¾ 9.5	2 ¹³ / ₁₆ 71.4	1 ¹⁵ / ₁₆ 49.2	3 ³ / ₄ 82.6	1 ³ / ₈ 34.9	400	9
RH125CO	1 ¼	1	¾ 9.5	2 ¹³ / ₁₆ 71.4	1 ¹⁵ / ₁₆ 49.2	3 ⁷ / ₁₆ 87.3	1 ¹ / ₄ 31.8	400	9
RH150CO	1 ½	1 ¼	¾ 9.5	2 ¹⁵ / ₁₆ 74.6	2 ¹ / ₁₆ 52.4	3 ³ / ₄ 95.3	1 ³ / ₁₆ 30.2	400	10
RH200CO	2	2	¾ 9.5	3 ⁷ / ₁₆ 87.3	2 ⁹ / ₁₆ 65.1	4 ⁹ / ₁₆ 115.9	1 ³ / ₈ 34.9	400	12
RH250CO	2 ½	2 ½	¾ 9.5	3 ¹¹ / ₁₆ 93.7	2 ¹³ / ₁₆ 71.4	5 ¹ / ₁₆ 128.6	1 ³ / ₈ 34.9	650	28
RH300CO	3	3	¾ 9.5	4 101.6	3 ³ / ₈ 79.4	3 ³ / ₈ 92.1	1 ³ / ₈ 34.9	650	30
RH400CO	4	4	¾ 9.5	4 ⁵ / ₈ 117.5	3 ³ / ₄ 95.3	6 ⁷ / ₈ 174.6	1 ¹ / ₂ 38.1	650	37

Materials & Finishes: Copper Colour Epoxy

SSH15 THRU SSH1000 - SPRING HANGER



Part No.	Max. Load at 1" Deflection (lbs)	Solid		Dimensions			Max. Rod Diameter
		Load (lbs)	Deflection	L	W	H	
SSH15	15	28.7	1.9" 48.3	2.62" 66.6	2.25" 57.2	4.75" 120.6	1/2"
SSH30	30	48.7	1.6" 40.6				
SSH60	60	90.0	1.5" 38.1				
SSH100	100	157.2	1.6" 40.6				
SSH150	150	240.5	1.6" 40.6				
SSH200	200	269.5	1.4" 35.6				
SSH300	300	420.0	1.4" 35.6	3.5" 88.9	2.5" 63.5	6.5" 165.1	3/4"
SSH318	318	477.0	1.5" 38.1				
SSH400	415	622.5	1.5" 38.1				
SSH500	500	705.0	1.4" 35.6				
SSH700	715	1,072.5	1.5" 38.1				
SSH1000	1060	1,166.0	1.1" 27.9				

- SSH15 - SSH300, Includes pre-galvanized standard duty housing
- SSH318 - SSH1000, Includes zinc plated heavy duty housing

Materials & Finishes: PG, Zinc Plated

Introduction

Channel

Concrete Inserts

General Fittings

Spring Nuts & Hardware

Clamps & Pipe Supports

Seismic

Galvanizing Compound

Rooftop Supports

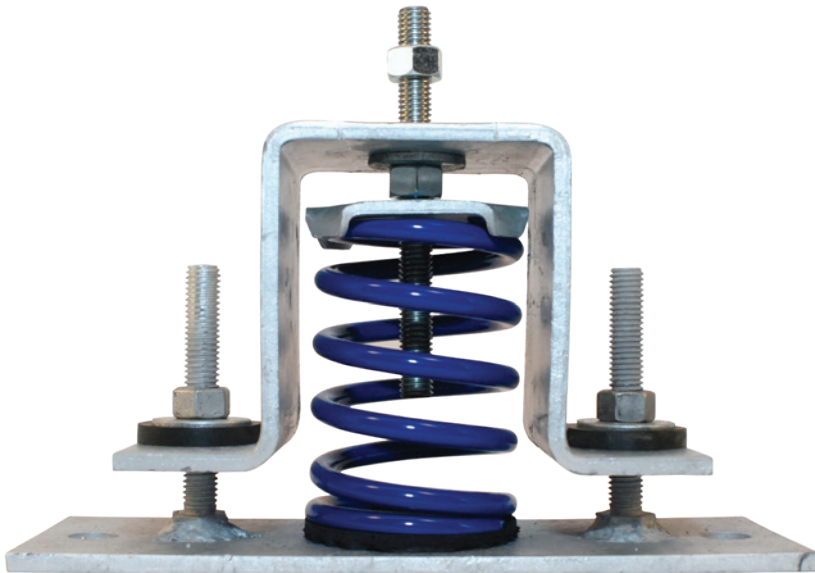
Erectastep

Sign Posts

Mechanical Tube

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JQA E21 THRU JQE 6080 - SPRING MOUNTS



- Housings are hot dip galvanized
- Hardware is zinc plated
- Springs are powder coated
- 4 different housing types, JQA, JQB, JQBX and JQE for different loads
- Housings are available with different mounting options upon request

Rated Load		
E Springs 1" Deflection		
JQA	JQB/JQBX	JQE
E21	ET255	E976
E55	ET347	E1272
E79	ET473	E1660
E106	E630	E2000
E143	E806	E2532
E187	E1030	E3204
E244	E1230	E4128
E318	E1490	6080
E415	E1810	
E500	E2210	
E633		
E690		
E801		

OPA - 0070		
Pre-Approved Maximum Allowable Loads (lbs)		
Size	Horiz.	Vert.
JQA	800	1,660
JQB	1,000	1,600
JQBX	1,500	2,000
JQE	3,200	4,300

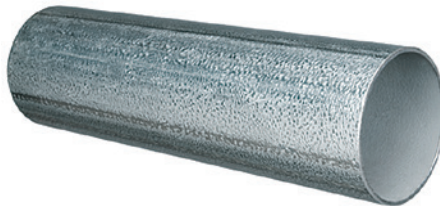
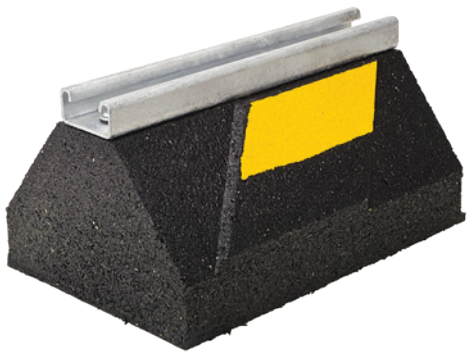
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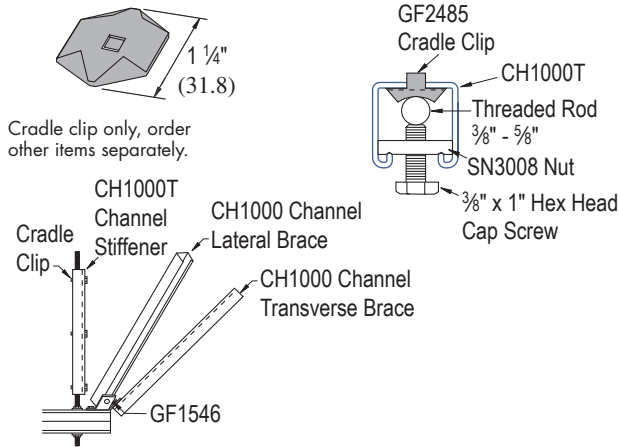
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GF2485 - CRADLE CLIP

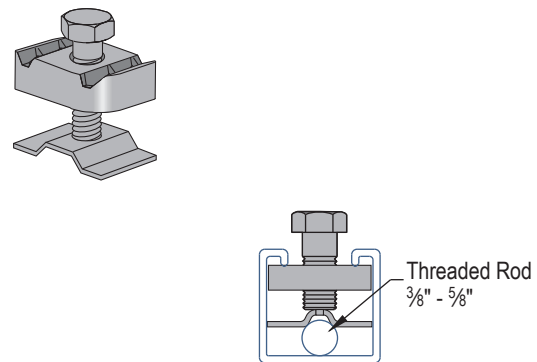


Cradle clip only, order other items separately.

Materials & Finishes: EG

Wt/100 pcs: 3 Lbs

GF3500 - SEISMIC ROD STIFFENER



Materials & Finishes: EG, SS

Wt/100 pcs: 16 Lbs

Notes:

1. Minimum Tensile Stress is 50,000 psi (345MPa)
2. Working Stress is 10,700 psi (73.9 MPa) – Same as for Tension
3. Compression Will Only Occur During a Seismic Event
4. Compression Requires the Use of Rod Stiffeners
5. $KL/r = 200$ When Rod Stress is at 35%

Refer to a seismic bracing systems catalog for more information.

Rod Size In (mm)	Root Area In ² (mm ²)	Radius of Gyration In (mm)	Design Load Lbs (kN)	Rod Stiffener Clip Spacing (L)			
				Rod Stress @100% 10,700 PSI In (mm)	Rod Stress @75% 8,025 PSI In (mm)	Rod Stress @50% 5,350 PSI In (mm)	Rod Stress @35% 3,745 PSI In (mm)
3/8	0.068	0.074	730	9	11	13	15
9.5	49.5	1.99	3.25	228.6	279.4	330.2	381.0
1/2	0.126	0.100	1,350	12	14	17	21
12.7	72.4	2.40	6.01	304.8	355.6	431.8	533.4
5/8	0.202	0.127	2,160	15	18	22	26
15.9	138.3	3.32	9.61	381.0	457.2	558.8	660.4

SRK-1810 - SWAY BRACE KIT

**Max. Safe Working Load
(5:1 Safety Factor)**
200 lbs

- 4 pcs: 1/8" - 10' cable with 45 degree 3/8" Eyelet
- 4 pcs: Gripple HangFast No. 3 Hangers
- 4 pcs: Gripple Retrofit Brackets
- 1 pc: Release Key
- 1 pc: Installation Instructions



GRIPPLE

High speed hanger solutions for Electrical, HVAC, and Mechanical industry. Gripple hangers come in varying weight and type. Complete with a length (5- 30 feet) of ready cut cable with a wide variety of pre-swaged end fixings. Please contact your UBS representative to find the right hanger for your job.

GRIPPLE - LOOP HANGERS



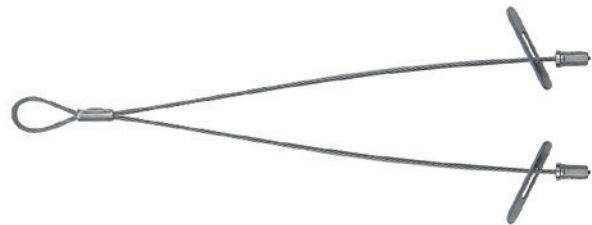
Loop Hangers		
Part No.	Size	Max. Safe Working Load
HF01-5FT	No. 1 x 5 ft.	25 lbs
HF01-10FT	No. 1 x 10 ft.	
HF01-15FT	No. 1 x 15 ft.	
HF01-30FT	No. 1 x 30 ft.	
HF02-5FT	No. 2 x 5 ft.	100 lbs
HF02-10FT	No. 2 x 10 ft.	
HF02-15FT	No. 2 x 15 ft.	
HF02-20FT	No. 2 x 20 ft.	
HF02-30FT	No. 2 x 30 ft.	200 lbs
HF03-5FT	No. 3 x 5 ft.	
HF03-10FT	No. 3 x 10 ft.	
HF03-15FT	No. 3 x 15 ft.	
HF03-20FT	No. 3 x 20 ft.	
HF03-30FT	No. 3 x 30 ft.	495 lbs
HF04-5FT	No. 4 x 5 ft.	
HF04-10FT	No. 4 x 10 ft.	
HF04-15FT	No. 4 x 15 ft.	
HF04-30FT	No. 4 x 30 ft.	715 lbs
HF05-5FT	No. 5 x 5 ft.	
HF05-10FT	No. 5 x 10 ft.	
HF05-15FT	No. 5 x 15 ft.	
HF05-30FT	No. 5 x 30 ft.	

EYELET HANGERS



90° 1/4" Eyelet Hangers		
Part No.	Size	Max. Safe Working Load
HF-SEYE90G-NO2-5FT	No. 2 x 5 ft.	100 lbs
HF-SEYE90G-NO2-10FT	No. 2 x 10 ft.	
HF-SEYE90G-NO2-15FT	No. 2 x 15 ft.	
HF-SEYE90G-NO2-20FT	No. 2 x 20 ft.	
HF-SEYE90G-NO2-30FT	No. 2 x 30 ft.	
HF-SEYE90G-NO3-5FT	No. 3 x 5 ft.	200 lbs
HF-SEYE90G-NO3-10FT	No. 3 x 10 ft.	
HF-SEYE90G-NO3-15FT	No. 3 x 15 ft.	
HF-SEYE90G-NO3-20FT	No. 3 x 20 ft.	
HF-SEYE90G-NO3-30FT	No. 3 x 30 ft.	

Y-FIT TOGGLE HANGERS



Y-Fit Toggle Hangers - Locate through 5/16" holes		
Part No.	Size	Max. Safe Working Load
HF-YTG-NO2-5FT-150MM	No. 2 x 5 ft. x 6" legs	100 lbs
HF-YTG-NO2-5FT-300MM	No. 2 x 5 ft. x 12" legs	
HF-YTG-NO2-5FT-460MM	No. 2 x 5 ft. x 18" legs	
HF-YTG-NO2-10FT-150MM	No. 2 x 10 ft. x 6" legs	100 lbs
HF-YTG-NO2-10FT-300MM	No. 2 x 10 ft. x 12" legs	
HF-YTG-NO2-10FT-460MM	No. 2 x 10 ft. x 18" legs	
HF-YTG-NO2-15FT-150MM	No. 2 x 15 ft. x 6" legs	100 lbs
HF-YTG-NO2-15FT-300MM	No. 2 x 15 ft. x 12" legs	
HF-YTG-NO2-15FT-460MM	No. 2 x 15 ft. x 18" legs	
HF-YTG-NO2-20FT-150MM	No. 2 x 20 ft. x 6" legs	100 lbs
HF-YTG-NO2-20FT-300MM	No. 2 x 20 ft. x 12" legs	
HF-YTG-NO2-20FT-460MM	No. 2 x 20 ft. x 18" legs	
HF-YTG-NO2-30FT-460MM	No. 2 x 30 ft. x 18" legs	100 lbs

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SRC 1/8" - SEISMIC CABLE



500' Rolls
Breaking Strength - minimum 2000 lbs.

SRC 1/16" - SEISMIC CABLE



1000' Rolls
Breaking Strength - minimum 480 lbs.

SRT 1/8" - SEISMIC RESTRAINT THIMBLE



SRU 1/8" - SEISMIC RESTRAINT U-BOLT



SRS 1/8" - SEISMIC RESTRAINT SLEEVE



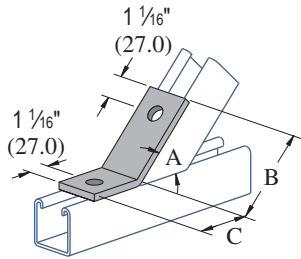
*to be used with size appropriate crimping tools

SRS 1/16" - SEISMIC RESTRAINT SLEEVE



*to be used with size appropriate crimping tools

GF1546 - ANGLE FITTING

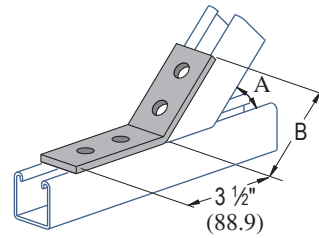


Part No.	"A" Degree (rad)	"B" In (mm)	"C" In (mm)
GF1546	45° 0.79	3 76.2	2 5/16 58.7

Materials & Finishes: EG, HG, SS

Wt/100 pcs: 58 Lbs

GF2263, GF2265, & GF2267 ANGLE FITTING

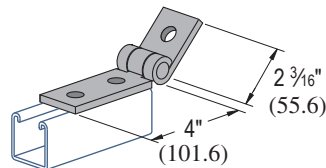


Part Number	"A" Degree (rad)	"B" In (mm)
GF2263	30° 0.52	3 1/16 93.7
GF2265	45° 0.79	3 1/16 93.7
GF2267	60° 1.05	3 1/16 93.7

Materials & Finishes: EG

Wt/100 pcs: 78 Lbs

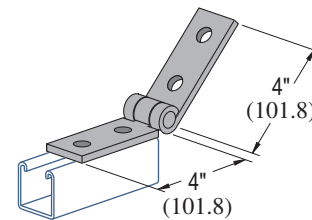
GF1354A - ADJ. HINGE CONNECTION



Materials & Finishes: EG

Wt/100 pcs: 89 Lbs

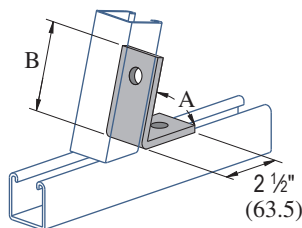
GF1354 - ADJ. HINGE CONNECTION



Materials & Finishes: EG

Wt/100 pcs: 109 Lbs

GF1186



Part Number	"A" Degree (rad)	"B" In (mm)
GF1186	45° 0.79	3 1/8 79.4

* Other angles available
- Special order - Minimum quantity may apply

Materials & Finishes: EG

Wt/100 pcs: 58 Lbs

Standard Dimensions for 1 5/8" (41.3mm) width series channel fittings (Unless Otherwise Shown on Drawing)

Hole Diameter: 9/16" (14.3mm); Hole Spacing - From End: 1 3/16" (20.6mm); Hole Spacing - On Center: 1 7/8" (47.6mm); Width: 1 5/8" (41.3mm); Thickness: 1/4" (6.4mm)

ZRC GALVILITE® GALVANIZING REPAIR COMPOUND

APPLICATIONS:

- Repairing hot-dip galvanizing
- Field applied galvanizing
- Rust proofing welds
- Repairing inorganic zinc
- Regalvanizing of worn hot-dip
- Metal fabrication
- Construction
- Manufacturing/OEM
- Antenna Towers
- Petrochemical Plants
- Roads & Bridges
- Tanks
- Industrial Maintenance
- Water Treatment
- Marine & Offshore
- Cooling Towers
- Hundreds more!

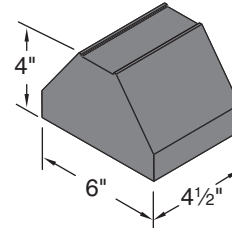
ZRC's Galvilite provides all the corrosion protection you've come to expect from the world's most specified galvanizing repair compound—in a silvery finish that closely matches the color of galvanized metal.

- 95% zinc in the dry film using only Type III "ultra pure" ASTM-D-520 zinc (lead and cadmium free)
- Recognized under the Component Program of Underwriters Laboratories, Inc. as equivalent to hot dip galvanizing
- Meets and exceeds Fed. Spec. DOD-P-21035A (Galvanizing Repair Spec); MIL-P-26915A (USAF Zinc Dust Primer); ASTM Des. A-780 (Standard Practice for Repair of Damaged Hot-Dip Galvanized Coatings; SSPC-Paint 20 (Specification for Zinc-Rich Primer)
- Passes 3,000 hours salt spray testing without failure (ASTM Des. B117)
- Passes 9-year subtropical testing
- Low VOC approved in all 50 states
- ISO 9001 registration assures the highest quality consistently
- Apply by brush, roller or spray
- Available in clog-free aerosol form
- Single-component



Packaging: Aerosol Can or Quart, Gallon, and 3.5 Gallon Pails

RTSM — MINI ROOFTOP SUPPORT



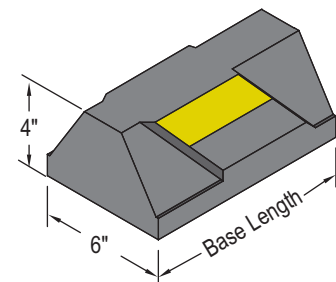
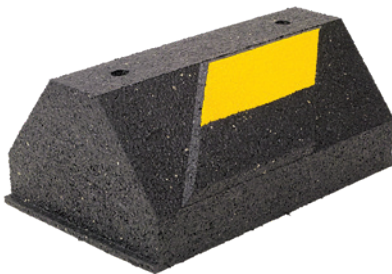
RTSM Series is made from 100% recycled rubber, the Mini-Port Support Series provides solid support and dampens vibration. It is perfect for conduit and small piping.

The RTSM Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Can be used as a curb (sleeper) replacement. Material effectively accepts screw fasteners for securing one (1) or two (2) hole straps (not included).

Specifications:
 Rubber Support
 Material - 100% Recycled Rubber, UV Resistant
 Maximum Load - 300 lbs./ft.

Model No.	Height In (mm)	Width In (mm)	Base Length In (mm)	Wt/100 pcs Lbs
RTSM	4" 101mm	6" 152mm	4 1/2" 113mm	260

RTS — ROOFTOP SUPPORT



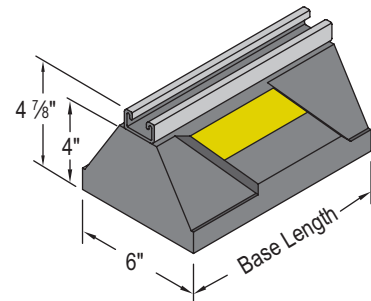
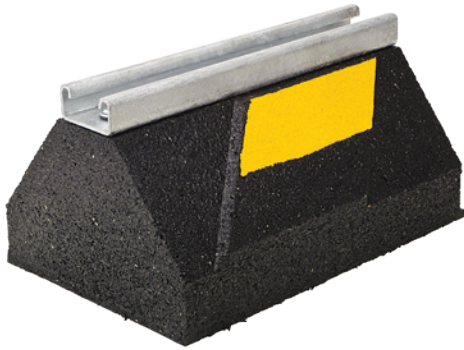
RTS Series channel support is designed for superior support of gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The RTS Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Can be used as a curb (sleeper) replacement. Material effectively accepts screw fasteners for securing one (1) or two (2) hole straps (not included).

Specifications:
 Rubber Support
 Material - 100% Recycled Rubber, UV Resistant
 Maximum Load - 500 lbs./ft.

Model No.	Height In (mm)	Width In (mm)	Base Length In (mm)	Wt/100 pcs Lbs
RTS	4" 101mm	6" 152mm	9.6" 244mm	456

RTS SERIES — ROOFTOP SUPPORT



RTS Series channel support is designed for superior support of gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The RTS Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces.

Specifications:

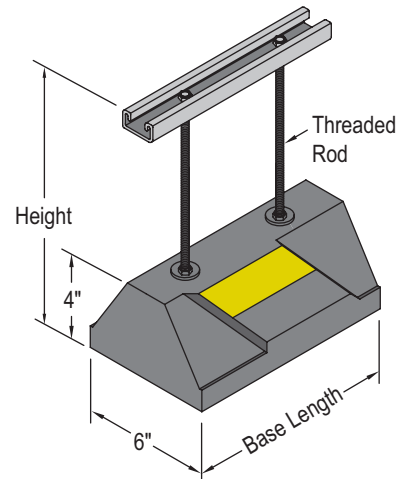
Rubber Support with ¹/₈" Shallow Channel

Material - 100% Recycled Rubber, UV Resistant

Maximum Load - 750 lbs./ft.

Model No.	Height In (mm)	Width In (mm)	Base Length In (mm)	Wt/100 pcs Lbs
RTS5	4 7/8" 124mm	6" 152mm	5" 127mm	332
RTS10	4 7/8" 124mm	6" 152mm	9.6" 244mm	530
RTS20	4 7/8" 124mm	6" 152mm	19.2" 488mm	1,123

RTS10-12 — ROOFTOP 12" EXTENDED SUPPORT W/10" STRUT



RTS-Extension Series channel support is designed for superior support of gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The RTS-Extension Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces.

Specifications:

Rubber Support with Threaded Rod Risers & ¹/₈" Galvanized Shallow Channel

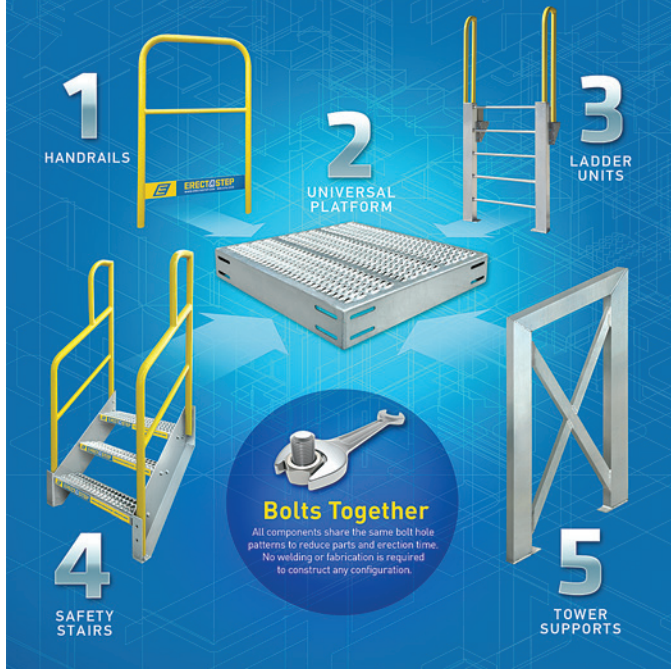
Material - 100% recycled rubber, UV resistant

Maximum Load - 150 lbs./ft.

Model No.	Height In (mm)	Width In (mm)	Base Length In (mm)	Wt/100 pcs Lbs
RTS10-12	12" 305mm	6" 152mm	9.6" 244mm	650

ERECTASTEP – MODULAR PLATFORMS AND STAIRS

5 Main Components
Unlimited Configurations



Modular Platform and Stairs: Saves Time, Eliminates Costly Engineering and Fabrication

- Bolts Together, No Fabrication Required
- Manufactured With Robotic Technology
- Unlimited, Expandable Configurations
- Re-Purpose With Ease
- Pre-Engineered Components
- Cost Less Than Custom Fabrication

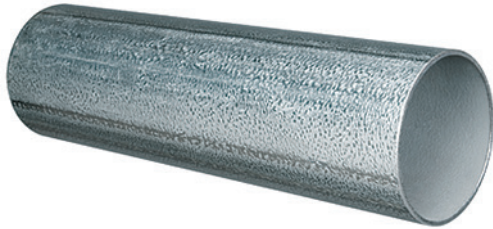


Unlimited Configurations:

- Crossovers
- Work Platforms
- "L" Shaped Crossovers
- Elevated Platforms
- Small Platforms
- Multi-Directional Crossover
- Maintenance Access Platforms
- Ladder Configurations
- Rolling Dolly Configurations
- Long Catwalk Platforms
- Berm Crossovers
- Rooftop Access
- Pipe Crossovers
- Re-Purpose Components As Plant Grows
- Pump Station Access
- Safely Spans 9'
- Cantilever Rolling Platforms
- Access To Top Of Tank Trucks
- Self-Leveling Stair & Work Platforms
- Adjustable Height Stairs
- Mobile Work Platforms
- Flatbed Fall Protection
- Mobile Process Work Stand
- Fall Protection



Round Sign Posts



Product:	2.375" Round Sign Posts
Finish:	GATORSHIELD - a highly durable in-line galvanized product with a triple layer of rust and corrosion resistant protection with an anticorrosive interior zinc coating
Sizes:	2.375" Round O.D. (Outside Diameter)
Gauges:	12, 13 and 14 gauge (Wall Thickness)

Materials & Finishes: Gatorshield

Lengths: 10', 10½' & 12'

Sign Bracket and Hardware



U-Channel Sign Posts



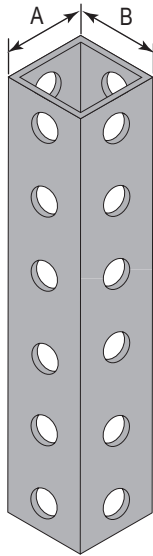
Product:	Our flanged U-Channel posts are manufactured from high quality, high tensile rail steel
Sizes:	1.12 Lbs. per Ft. 2.00 Lbs. per Ft.

Materials & Finishes: HG

Lengths: 6', 7', 8', 10' & 12'

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Telespar Sign Support System



Part Number	Gauge	"A" In. (mm)	"B" In. (mm)
14F12	12	1½" 38.1	1½" 38.1
16F12		1¾" 44.5	1¾" 44.5
20F12		2" 50.8	2" 50.8
22F12		2¼" 57.2	2¼" 57.2
24F12		2½" 63.5	2½" 63.5
16D12	14	1¾" 44.5	1¾" 44.5

Materials & Finishes: PG

Lengths: 10', 12', 20' & 24'

GF015

Materials & Finishes: EG Wt/100 pcs: 50 Lbs

GF016

Materials & Finishes: EG Wt/100 pcs: 63 Lbs

GF018

Materials & Finishes: EG Wt/100 pcs: 84 Lbs

GF020

Materials & Finishes: EG Wt/100 pcs: 26 Lbs



FIBERGLASS MARKER POSTS

Our Fiberglass Reinforced Polymers (FRP) sign posts are manufactured by industry leaders. Our FRP signposts come in flat and round and are designed to recover after vehicle impact and are resistant to heat, cold and sunlight. Smooth surface on FRP sign posts makes them ideal for custom decals. Please contact your UBS representative to source the right post for your job.

Product Applications Include:

- Buried Utility
- Highway Delineators
- Trail Markers
- Pipeline Markers
- Telecommunications
- Transportation
- Medical

Fiberglass Utility Marker



Round Marker Posts



Fiberglass Test Stations



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MECHANICAL TUBE

Flo-Coat® Galvanized Steel Tubing

- The ORIGINAL in-line galvanized tube
- High Strength
- Triple Coat Protection
- Fabrication Friendly
- Ideal for paint or powder coat

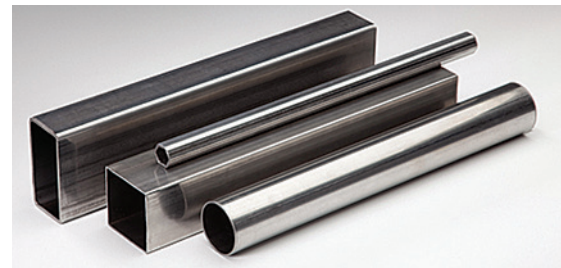
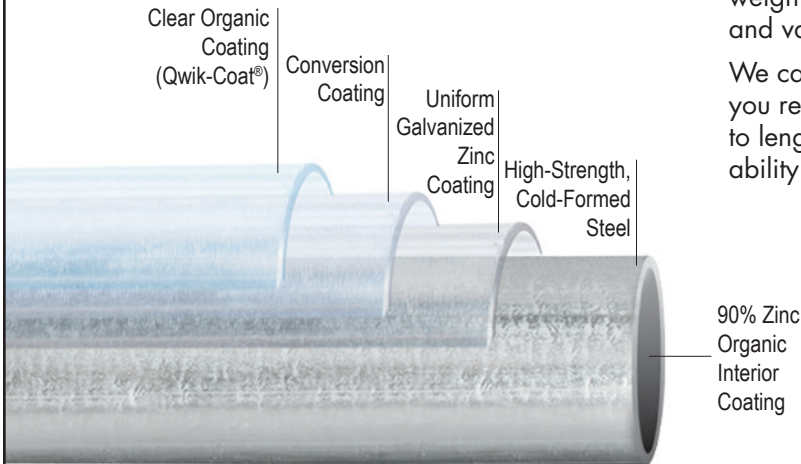
Gatorshield® Galvanized Steel Tubing

- High Strength
- Advanced Corrosion Protection
- Double zinc levels
- Fabrication Friendly-
- Ideal for highly corrosive outdoor conditions



The preferred choice for OEM applications, our tubing has literally been designed to meet customer needs. We offer the most complete range of standard sizes available and are ready to work with you to develop custom applications. We can create tubing solutions that offer better coatings, decreased weight, longer-term corrosion resistance on interiors, and various tube strength options.

We can provide you with the CUSTOMIZED tubing you require. Whether you need your tubing CUT to length, PUNCHED, or SWEDGED, we have the ability to deliver you a customized product.



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Clamps & Pipe Supports

Seismic

Galvanizing Compound

Roofing Supports

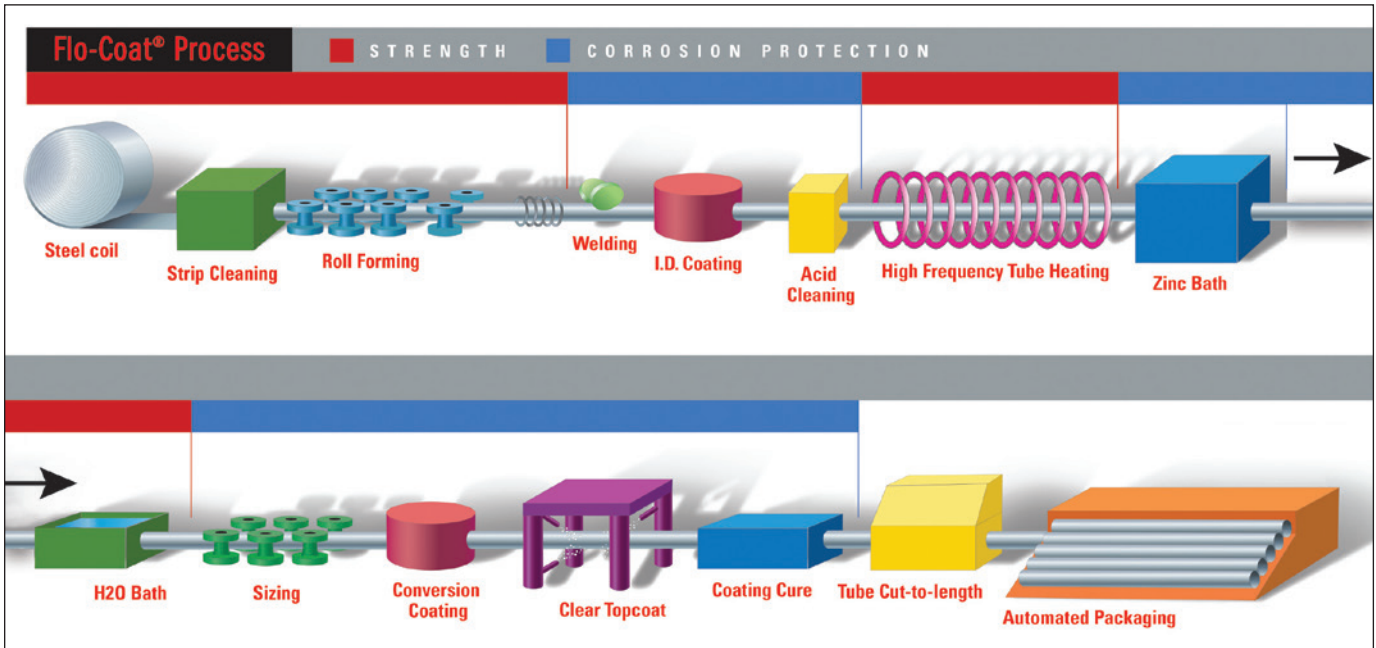
Erectastep

Sign Posts

Mechanical Tube

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Flo-Coat® Process Delivers consistent long-term strength, quality, and reliability!



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Mechanical Tube Specifications

ROUND (in inches) Nominal decimal for ordering gauge																	
Outside Diameter	Equiv. Sizes	22	20	19	18	17	16	15	14	13	12	11	10	9	8	7	
		0.028	0.035	0.042	0.049	0.058	0.065	0.072	0.083	0.095	0.109	0.120	0.134	0.148	0.165	0.180	
0.500		0.1413	0.1740	0.2056	0.2362	0.2740	0.3023										
0.625		0.1787	0.2207	0.2618	0.3017	0.3516	0.3891										
0.706	½" EMT	0.2029	0.2511	0.2981	0.3441	0.4018	0.4454										
0.750		0.2161	0.2675	0.3179	0.3672	0.4291	0.4760	0.5218									
0.815	½" IMC	0.2356	0.2918	0.3471	0.4012	0.4694	0.5211	0.5719	0.6495								
0.870		0.2520	0.3124	0.3718	0.4300	0.5035	0.5594	0.6142									
0.875		0.2535	0.3143	0.3740	0.4327	0.5066	0.5628	0.6181									
0.922	¾" EMT	0.2676	0.3319	0.3951	0.4573	0.5357	0.5955	0.6542	0.7444								
0.980		0.2850	0.3535	0.4211	0.4877	0.5717	0.6358	0.6989	0.7959								
0.995		0.2894	0.3592	0.4279	0.4955	0.5810	0.6462	0.7104	0.8092								
1.000		0.2909	0.3611	0.4301	0.4981	0.5841	0.6497	0.7143	0.8136								
1.029		0.2996	0.3719	0.4431	0.5133	0.6020	0.6698	0.7366	0.8394								
1.125		0.3284	0.4078	0.4862	0.5636	0.6616	0.7365	0.8105	0.9245								
1.163	1" EMT		0.4220	0.5033	0.5835	0.6851	0.7629	0.8397	0.9583								
1.187				0.5141	0.5961	0.7000	0.7796										
1.250			0.4546	0.5424	0.6291	0.7391	0.8234	0.9067	1.0354	1.1730	1.3295	1.4496	1.5986				
1.290	1" IMC			0.5603	0.6500	0.7639	0.8512	0.9375	1.0709	1.2136	1.3761	1.5009	1.6559				
1.315	1" NPS			0.4789	0.5716	0.6631	0.7794	0.8686	0.9567	1.0931	1.2390	1.4052	1.5329	1.6917			
1.375				0.5014	0.5985	0.6946	0.8166	0.9103	1.0029	1.1464							
1.500				0.5481	0.6546	0.7600	0.8941	0.9971	1.0991	1.2573	1.4268	1.6208	1.7703	1.9567			
1.510	1¼" EMT			0.5519	0.6591	0.7653	0.9003	1.0041	1.1068	1.2661	1.4370	1.6325	1.7831	1.9711			
1.625						0.8255	0.9716	1.0840	1.1953	1.3682	1.5538	1.7665	1.9306	2.1358			
1.638	1¼" IMC				0.7166	0.8323	0.9796	1.0930	1.2053	1.3797	1.5670	1.7816	1.9473	2.1544			
1.660	1¼" NPS	0.4885	0.6080	0.7264	0.8439	0.9933	1.1083	1.2223	1.3992	1.5893	1.8072	1.9755	2.1859				
1.690							1.1291	1.2453	1.4258	1.6198	1.8422	2.0140	2.2289				
1.740	1½" EMT			0.6379	0.7624	0.8858	1.0429	1.1639	1.2838	1.4702							
1.750				0.6417	0.7669	0.8910	1.0491	1.1708	1.2915	1.4791							
1.764				0.6469	0.7731	0.8983	1.0578	1.1806	1.3023	1.4915							
1.875					0.8230	0.9565	1.1266	1.2577	1.3877	1.5900							
1.883	1½" IMC				0.8266	0.9607	1.1315	1.2632	1.3939	1.5971	1.8158	2.0671	2.2616	2.5054			
1.900	1½" NPS			0.6978	0.8342	0.9696	1.1421	1.2750	1.4070	1.6122	1.8331	2.0869	2.2834	2.5297	2.7719		
1.948				0.7157	0.8558	0.9947	1.1718	1.3084	1.4439	1.6548							
1.968	50 MM			0.7232	0.8647	1.0052	1.1842	1.3223	1.4593	1.6725							
2.000				0.7352	0.8791	1.0220	1.2041	1.3445	1.4839	1.7009	1.9346	2.2034	2.4117	2.6730	2.9301		
2.197	2" EMT							1.4814	1.6356	1.8757	2.1347	2.4330	2.6644	2.9552	3.2418		
2.360	2" IMC					1.2105	1.4273	1.5947	1.7610	2.0203	2.3002	2.6229	2.8735	3.1887	3.4996		
2.375	2" NPS				1.0475	1.2184	1.4366	1.6051	1.7726	2.0336	2.3155	2.6404	2.8927	3.2101	3.5234	3.8981	4.2236
2.500								1.6920	1.8688	2.1445	2.4424	2.7860	3.0531	3.3892	3.7211	4.1186	4.4610
2.857	2½" IMC								2.1436	2.4613	2.8049	3.2020	3.5110	3.9006	4.2860	4.7483	5.1511
2.875	2½" NPS								2.1574	2.4773	2.8232	3.2230	3.5341	3.9264	4.3144	4.7800	5.1857
3.000									2.2536	2.5882	2.9502	3.3686	3.6945	4.1054	4.5122	5.0005	5.4262
3.476	3" IMC								2.6200	3.0105	3.4336	3.9233	4.3051	4.7873	5.2653	5.8401	6.3422
3.500	3" NPS								2.6385	3.0318	3.4579	3.9512	4.3359	4.8217	5.3033	5.8824	6.3883
3.971	3½" IMC									3.4497	3.9363	4.5000	4.9401	5.4963	6.0484	6.7132	7.2946
4.000	3½" NPS									3.4754	3.9657	4.5338	4.9773	5.5379	6.0943	6.7644	7.3504
4.466	4" IMC								3.3820	3.8889	4.4390	5.0768	5.5750	6.2054	6.8316	7.5863	8.2471
4.500	4" NPS								3.4081	3.9191	4.4735	5.1164	5.6187	6.2541	6.8854	7.6463	8.3125
5.000	4½" NPS										4.9813	5.6990	6.2601	6.9704	7.6764	8.5282	9.2746

Typical Mechanical Properties Achieved For Galvanized Tube Products:

- = 40,000 psi yield/45,000 psi tensile
 - = 45,000 psi yield/48,000 psi tensile
 - = 50,000 psi yield/55,000 psi tensile
- Higher mechanical properties available on request

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Mechanical Tube Specifications (cont.)

SHAPES Square tubing is available as round-to-square (RTS), weld-in-corner (WIC) or both. Please inquire for details.																	
Introduction	Size	RTS	WIC	20	19	18	17	16	15	14	13	12	11	10	9	8	7
				0.035	0.042	0.049	0.058	0.065	0.072	0.083	0.095	0.109	0.120	0.134	0.148	0.165	0.180
Channel	0.625	X		0.2810	0.3333	0.3841	0.4476	0.4954									
	0.709	X		0.3211	0.3813	0.4401											
Concrete Inserts	0.750	X		0.3406	0.4047	0.4675	0.5463	0.6060	0.6644	0.7535							
	0.813	X		0.3706	0.4407	0.5095	0.5960	0.6617	0.7261	0.8246							
	0.875	X		0.4001	0.4762	0.5509	0.6449	0.7166	0.7869	0.8947							
General Fittings	0.975	X				0.6175	0.7239	0.8050	0.8849	1.0076							
	1.000	X		0.4597	0.5476	0.6342	0.7436	0.8271	0.9094	1.0359	1.1701	1.3218					
	1.250*	2	X	0.5788	0.6905	0.8009	0.9409	1.0483	1.1543	1.3183	1.4934	1.6927	1.8455				
	1.500*	X	X	0.6979	0.8334	0.9677	1.1383	1.2695	1.3993	1.6007	1.8166	2.0635	2.2538				
	1.625		X					1.3801	1.5218	1.7419	1.9782	2.2490	2.4580				
	1.750*		X					1.4906	1.6443	1.8831	2.1398	2.4344	2.6621				
	1.875		X									2.6198					
	2.000*	X	X					1.7118	1.8893	2.1655	2.4631	2.8053	3.0704	3.4031	3.7304	4.1208	4.4586
	2.188		X										3.7460				
	2.250*	X	X						2.1343	2.4479	2.7863	3.1762	3.4787	3.8590			
Spring Nuts & Hardware	2.500*	X	X						2.3792	2.7303	3.1095	3.5470	3.8870	4.3150	4.7376	5.2436	
	3.000	X						2.5964	2.8692	3.2951	3.7560	4.2888	4.7036	5.2268	5.7447	6.3664	6.9084
	4.000	X								4.4248	5.0490	5.7723	6.3368	7.0506	7.7590	8.6121	9.3582
Clamps & Pipe Supports	0.750 x 1.000			0.3319	0.3951	0.4573	0.5357	0.5955									
	1.500 x 1.000			0.4789	0.5716	0.6631	0.7794	0.8686									
	1.75 x 1.125			0.5519	0.6591	0.7653	0.9003	1.0041	1.1068	1.2661							
	2.000 x 1.094			0.6080	0.7264	0.8439	0.9933	1.1083									
	2.250 x 1.313			0.6978	0.8342	0.9696	1.1421	1.2750									
	2.375 x 1.625					1.1251	1.3262	1.4814									
Seismic	0.625 x 1.125			0.4001	0.4762	0.5509	0.6449	0.7166									
	0.750 x 1.500			0.5192	0.6191	0.7176	0.8423	0.9377	1.0319	1.1771							
	0.750 x 2.250			0.6979													
Galvanizing Compound	0.875 x 1.917			0.6483	0.7740	0.8983	1.0562	1.1775									
	1.000 x 1.750			0.6383	0.7620	0.8843	1.0396	1.1589									
	1.000 x 2.000			0.6979	0.8334	0.9677	1.1383	1.2695	1.3993	1.6007							
	1.500 x 2.000			0.8169	0.9763	1.1344	1.3356	1.4906	1.6443	1.8831	2.1398	2.4344	2.6621				
	1.500 x 2.500					1.1192	1.3011	1.5330	1.7118	1.8893	2.1655	2.4631	2.8053	3.0704	3.4031		
	1.500 x 3.000											2.7863	3.1762	3.4787			
	1.500 x 3.500						1.6345	1.9277	2.1541	2.3792	2.7303	3.1095	3.5470	3.8870	4.3150		
	1.540 x 3.110											3.2874					
	1.625 x 3.000									2.5185	2.8671	3.2689	3.5808				
	2.000 x 3.000						2.1541	2.3792	2.7303	3.1095	3.5470	3.8870	4.3150	4.7376	5.2436	5.6835	
Roofing Supports	2.000 x 4.000								3.2951	3.7560	4.2888	4.7036	5.2268	5.7447	6.3664		
	2.000 x 5.000								3.8599	4.4025	5.0305	5.5202	6.1387	6.7519	7.4892		
	2.360 x 4.720									4.4542	5.0899	5.5855	6.2117	6.8324			
	3.000 x 4.000									4.4025	5.0305	5.5202	6.1387	6.7519	7.4892	8.1333	
Sign Posts	Octagon	4.783										5.7505	6.3159	7.0316	7.7429	8.6006	

* Also available as Square-Fi®

Mechanical Tube Specifications (cont.)

Tolerances:			
Round	Tolerance	Length	Tolerance
0.500 thru 1.510	±.005	Under 5**	± 1/16"
1.625 thru 2.000	±.010	5' - 15'	± 1/8"
2.197 thru 4.500	±.015	16' - 19'	± 1/4"
5.000	±.020	20' - 40**	± 1/2"
Square & Rectangle	±.010	*Must be cut off-line.	
Except:		Closer length tolerances available upon request	
1x1 & Smaller	±.005	**sizes 2.875 – 5.000 can be run up to 40' long	
1.500 x 3.000	±.020		
2.000 x 3.000	±.015		
2.000 x 4.000	±.015		
2.000 x 5.000	±.030		
2.360 x 4.720	±.030		
3.000 x 3.000	±.015		
3.000 x 4.000	±.030		
4.000 x 4.000	±.020		
Oval Sizes	±.015		

Carbon Steel Typical Chemistry:				
	1008 Steel (16 gauge and lighter)	1010 Steel (15 gauge and heavier)	1015 Steel (15 gauge and heavier)	"1022 Steel (15 gauge and heavier)"
Carbon max. %	0.10	0.13	0.18	0.23
Manganese max. %	0.50	0.60	0.60	1.00
Phosphorus max. %	0.030	0.030	0.030	0.030
Sulphur max. %	0.035	0.035	0.035	0.035

All steel tube products...

are manufactured per ASTM-A500 dimensions. Inquire as to compliance to specific grades. Please inquire about our ability to meet ASTM-A513 and other tube specifications.

Introduction

Channel

Concrete Inserts

General Fittings

Spring Nuts & Hardware

Clamps & Pipe Supports

Seismic

Galvanizing Compound

Rooftop Supports

Erectastep

Sign Posts

Mechanical Tube

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